

PRCP schedule

Environmental Protection Act 1994

PRCP schedule PRCP_EPML00417213_V1

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: PRCP_EPML00417213_V1

PRCP schedule holder(s)

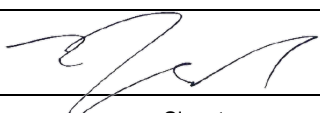
Name(s)	Registered address
Aberdare Collieries Proprietary Limited ACN: 009 659 367	Level 2, North Tower 540 Wickham Street Fortitude Valley QLD 4006 Australia

Location details

Location(s)
ML50074

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

7 September 2023

Date

Ben Byrd
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Business Centre (Coal)
PO Box 3028, Emerald QLD 4720
Phone: (07) 4987 9320
Email: 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 - Final site design and reference maps
- Section C – Post-mining land uses

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
 - (b) when each rehabilitation milestone is to be achieved

General conditions

PRCP1 The holder must comply with each milestone criterion stated in the schedule.

PRCP2 Where a milestone criterion requires any of the following, the holder must keep records of the actions taken to comply with the criterion as well as the results and provide a copy of this information to the Administering Authority on request -

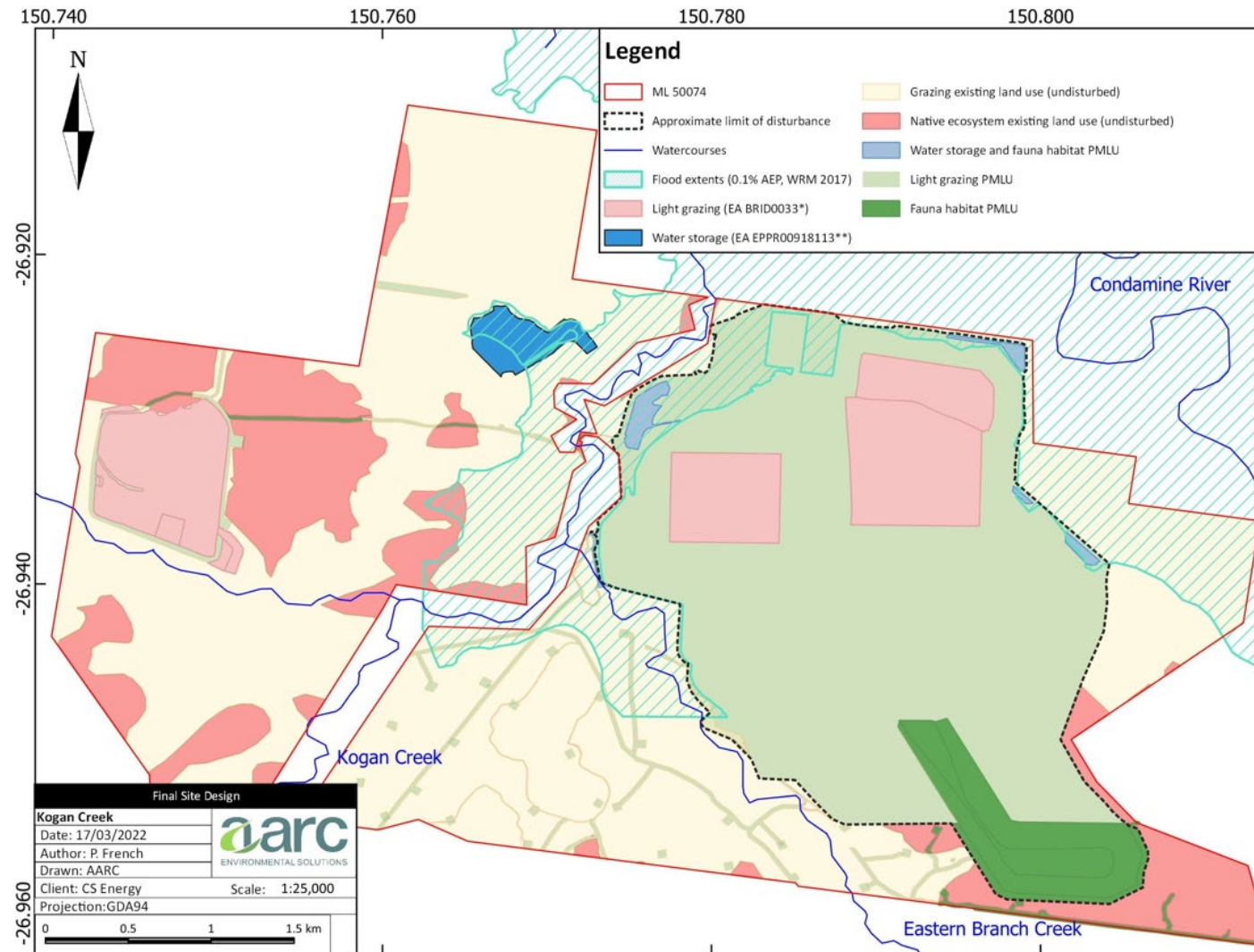
- (i) certifications or assessments to be undertaken;
- (ii) monitoring or maintenance to be carried out;
- (iii) final design plans and/or specifications to be developed; and
- (iv) reports such as contaminated land investigations, rehabilitation reports (including monitoring records), validation reports, Quality Assurance/Quality Control reports.

PRCP3 Where land becomes available for rehabilitation earlier than the nominated 'Date area is available', progressive rehabilitation for that land must commence as soon as practicable. Progressive rehabilitation commenced early under this condition must be carried out in accordance with the milestones and criteria in this schedule, except that each of the dates by which milestones are to be completed is brought forward by the same amount of time as the commencement was brought forward.

END OF CONDITIONS

Section B - Final site design and reference maps

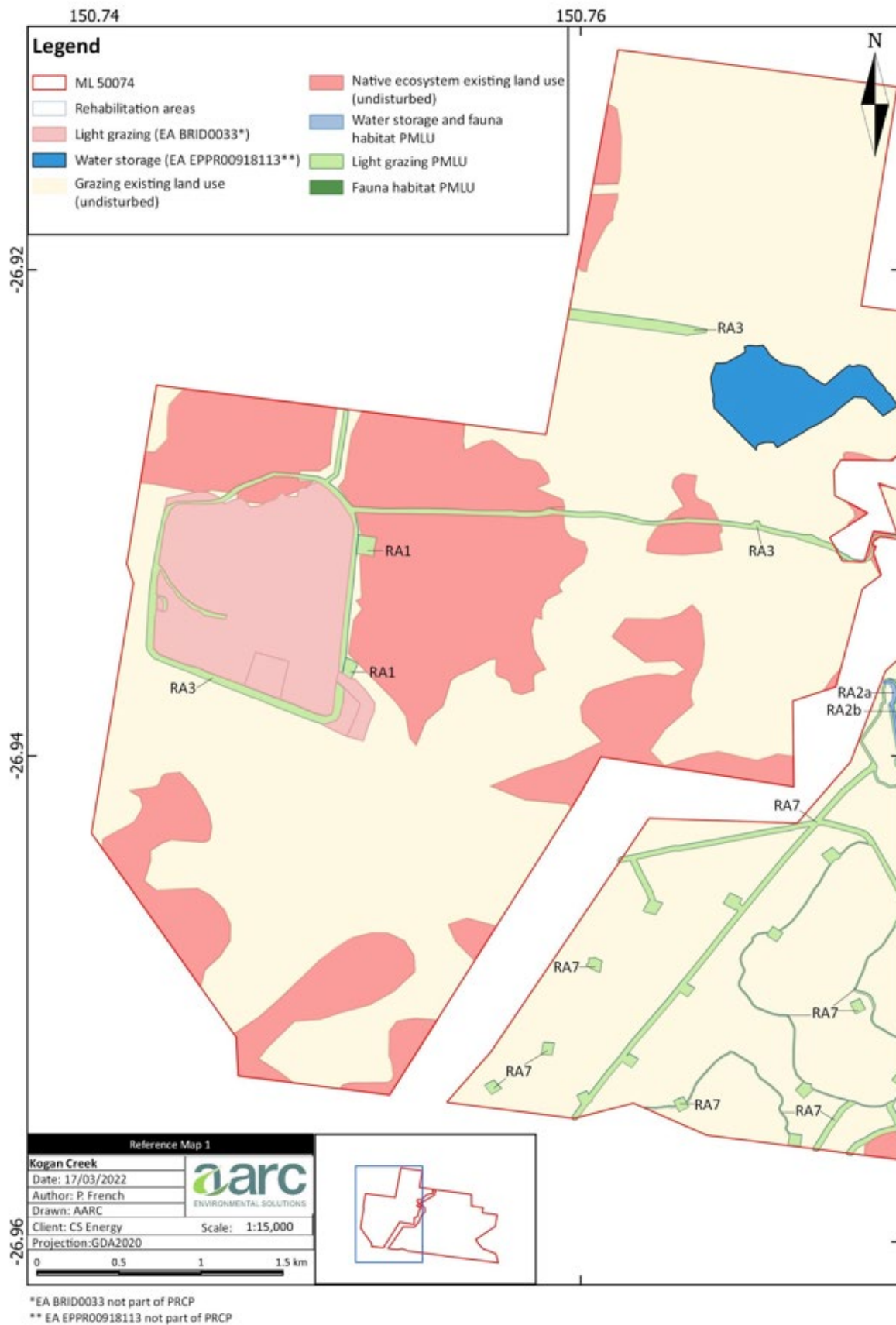
1. Final site design and land use

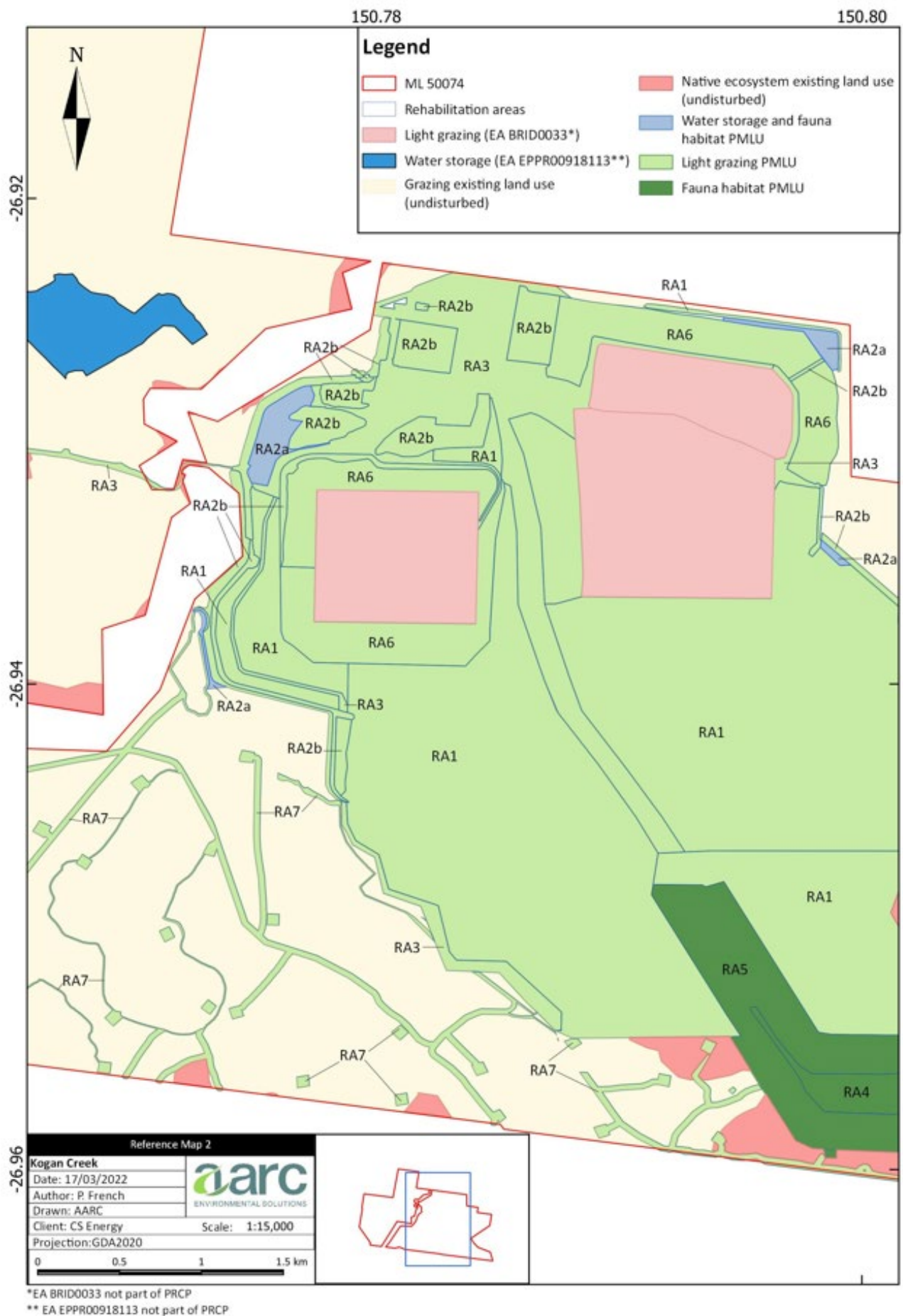


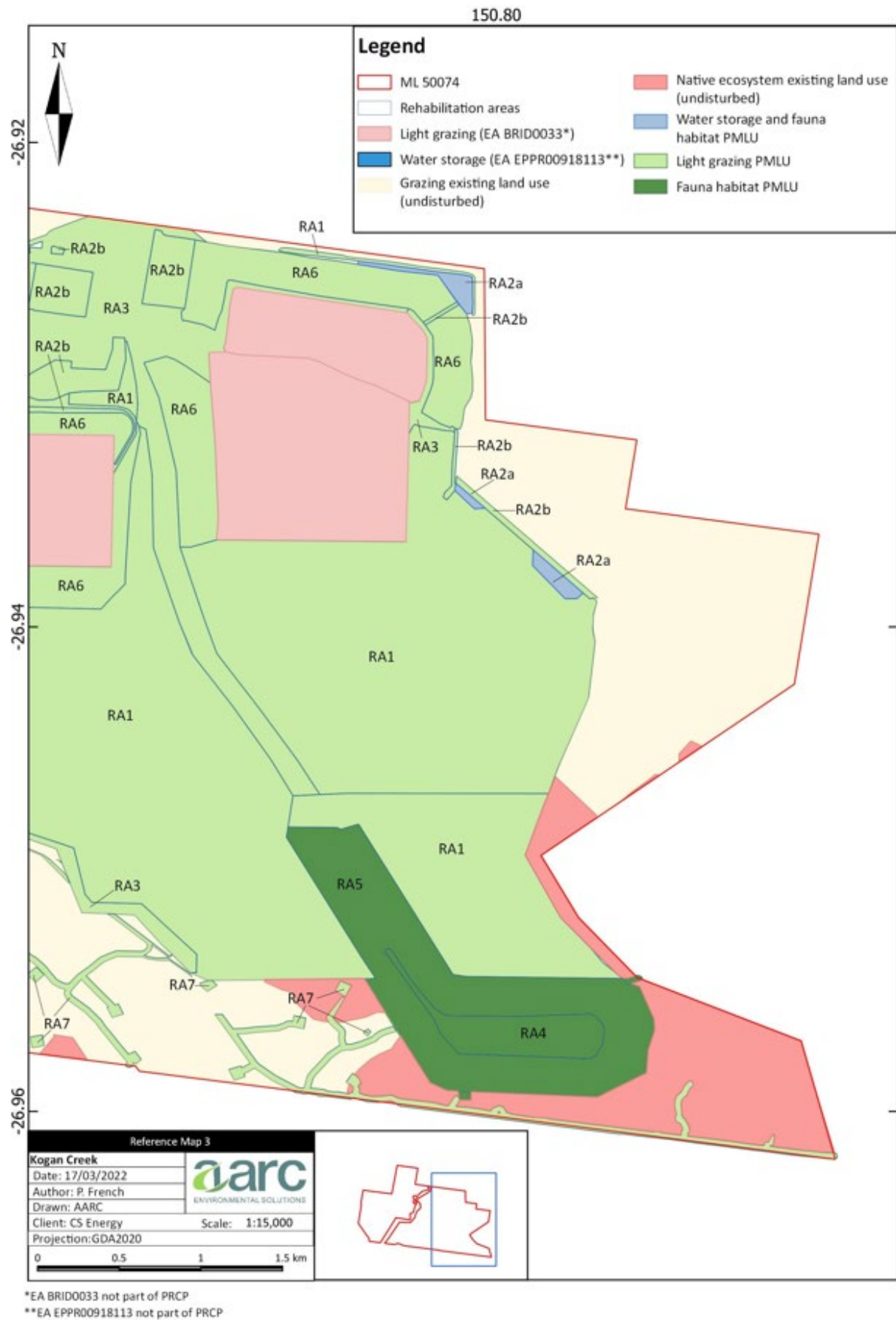
* EA BRID0033 not part of PRCP

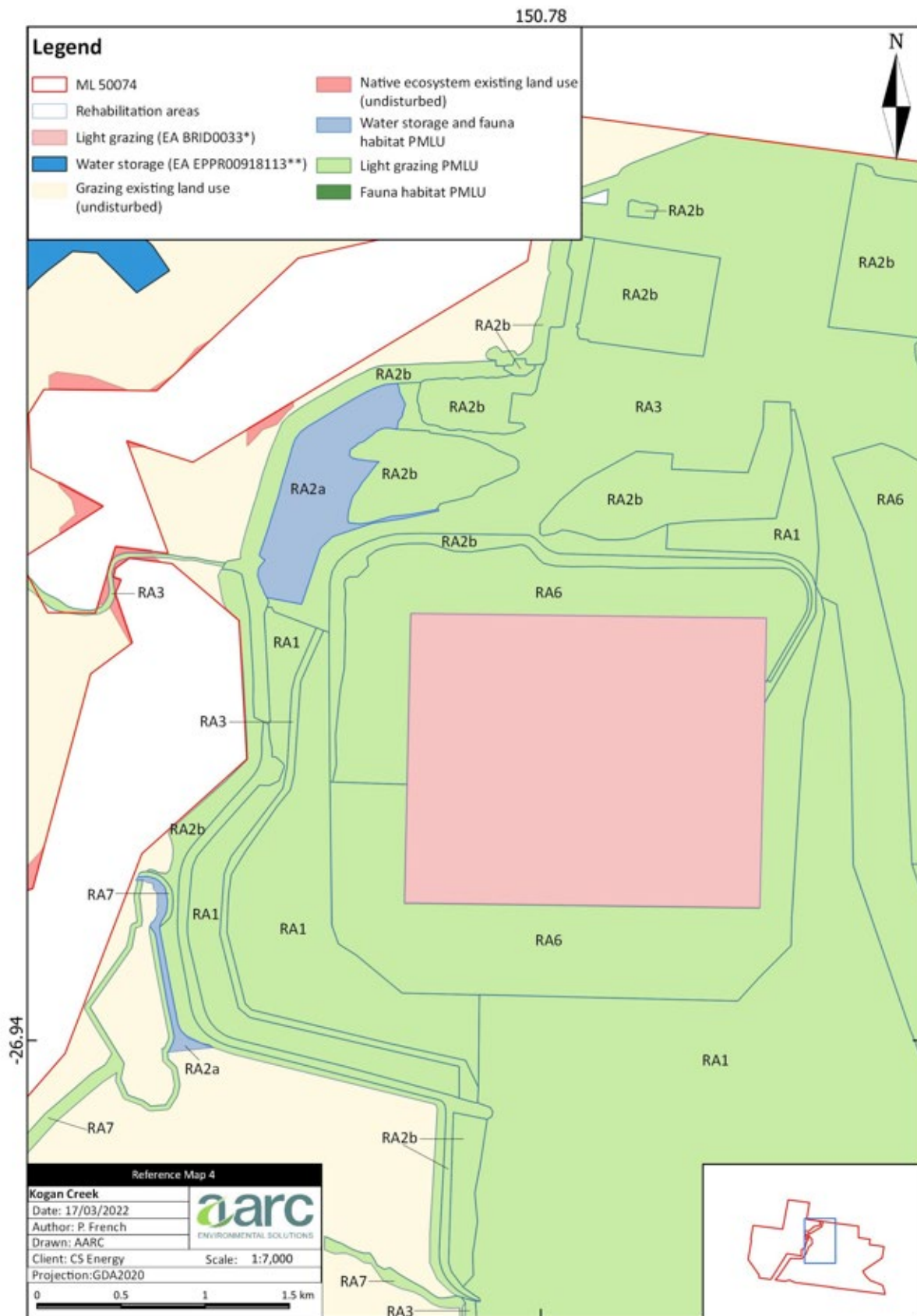
** EA EPPR00918113 not part of PRCP

2. Reference maps









Section C – Post-mining land uses

(RA1) Rehabilitation area 1

Post-mining land uses (PMLU)										
Rehabilitation area				RA1						
Relevant activities				In-pit and out-of-pit waste rock emplacements						
Total rehabilitation area size (ha)				425.2						
Commencement of first milestone: RM3				2022						
PMLU				Light grazing						
Date area is available	10/12/2022	10/12/2027	10/12/2032	10/12/2037	10/12/2042					
Cumulative area available (ha)	20.4	30.2	124.2	229.7	425.2					
Milestone completed by	10/12/2027	10/12/2032	10/12/2037	10/12/2042	10/12/2047	10/12/2052	10/12/2057	10/12/2062	10/12/2067	
Milestone Reference	Cumulative area achieved (ha)									
RM3	20.4	30.2	124.2	229.7	425.2					
RM4	20.4	30.2	124.2	229.7	425.2					
RM5	20.4	30.2	124.2	229.7	425.2					
RM6			20.4	30.2	124.2	229.7	425.2			
RM7					20.4	30.2	124.2	229.7	425.2	

(RA2a) Rehabilitation area 2a

Post-mining land uses (PMLU)		
Rehabilitation area		RA2a
Relevant activities		Retained water management infrastructure (including Dam 8, Sediment dam 1 and 2, OPAC sediment dam and Eastern Creek Branch diversion)
Total rehabilitation area size (ha)		10.3
Commencement of first milestone: RM1		2047
PMLU		Water storage and fauna habitat
Date area is available	10/12/2047	
Cumulative area available (ha)	10.3	
Milestone completed by	10/12/2052	
Milestone Reference	Cumulative area achieved (ha)	
RM1	10.3	
RM7	10.3	

(RA2b) Rehabilitation area 2b

Post-mining land uses (PMLU)							
Rehabilitation area				RA2b			
Relevant activities				Rehabilitated water management infrastructure (including North ROM pond, Dam 1, Dam 2, Test Pit, Dam 4, 5 and 6, IADA Lower Pond and all levee areas)			
Total rehabilitation area size (ha)				43.4			
Commencement of first milestone: RM1				2022			
PMLU				Light grazing			
Date area is available	Prior to 2022	10/12/2022	10/12/2027	10/12/2047			
Cumulative area available (ha)	4.6			43.4			
Milestone completed by	10/12/2022	10/12/2027	10/12/2032	10/12/2052	10/12/2057	10/12/2062	
Milestone Reference	Cumulative area achieved (ha)						
RM1	4.6			43.4			
RM2	4.6			43.4			
RM3	4.6			43.4			
RM4	4.6			43.4			
RM5	4.6			43.4			
RM6		4.6			43.4		
RM7			4.6			43.4	

(RA3) Rehabilitation area 3

Post-mining land uses (PMLU)				
Rehabilitation area		RA3		
Relevant activities		Mine infrastructure areas (including major haul roads)		
Total rehabilitation area size (ha)		94.4		
Commencement of first milestone: RM1		2047		
PMLU		Light grazing		
Date area is available	10/12/2047			
Cumulative area available (ha)	94.4			
Milestone completed by	10/12/2052	10/12/2057	10/12/2063	
Milestone Reference	Cumulative area achieved (ha)			
RM1	94.4			
RM2	94.4			
RM4	94.4			
RM5	94.4			
RM6		94.4		
RM7			94.4	

(RA4) Rehabilitation area 4

Post-mining land uses (PMLU)				
Rehabilitation area			RA4	
Relevant activities			Residual void floor	
Total rehabilitation area size (ha)			13	
Commencement of first milestone: RM3			2043	
PMLU			Fauna habitat	
Date area is available	10/12/2042			
Cumulative area available (ha)	13			
Milestone completed by	10/12/2047	10/12/2057	10/12/2067	
Milestone Reference	Cumulative area achieved (ha)			
RM3	13			
RM4	13			
RM5	13			
RM6		13		
RM7			13	

(RA5) Rehabilitation area 5

Post-mining land uses (PMLU)				
Rehabilitation area			RA5	
Relevant activities			Residual void high wall / low wall	
Total rehabilitation area size (ha)			63.1	
Commencement of first milestone: RM3			2043	
PMLU			Fauna habitat	
Date area is available	10/12/2042			
Cumulative area available (ha)	63.1			
Milestone completed by	10/12/2047	10/12/2057	10/12/2067	
Milestone Reference	Cumulative area achieved (ha)			
RM3	63.1			
RM4	63.1			
RM5	63.1			
RM6		63.1		
RM7			63.1	

(RA6) Rehabilitation area 6

Post-mining land uses (PMLU)							
Rehabilitation area				RA6			
Relevant activities				In-Pit Ash Cells and Out-Pit Ash Cell batters			
Total rehabilitation area size (ha)				81.7			
Commencement of first milestone: RM3				2022			
PMLU				Light grazing			
Date area is available	Prior to 2022	10/12/2022		10/12/2032			
Cumulative area available (ha)	44.1	66.3		81.7			
Milestone completed by	10/12/2022	10/12/2027	10/12/2037	10/12/2042	10/12/2052	10/12/2062	
Milestone Reference	Cumulative area achieved (ha)						
RM3	44.1	66.3		81.7			
RM4	44.1	66.3		81.7			
RM5	44.1	66.3		81.7			
RM6			44.1	66.3	81.7		
RM7					66.3	81.7	

(RA7) Rehabilitation area 7

Post-mining land uses (PMLU)				
Rehabilitation area			RA7	
Relevant activities			Exploration tracks and drill pads	
Total rehabilitation area size (ha)			45.3	
Commencement of first milestone: RM1			2022	
PMLU			Light grazing	
Date area is available	10/12/2022			
Cumulative area available (ha)	45.3			
Milestone completed by	10/12/2027	10/12/2032	10/12/2037	
Milestone Reference	Cumulative area achieved (ha)			
RM1	45.3			
RM4	45.3			
RM5	45.3			
RM6		45.3		
RM7			45.3	

Rehabilitation area milestones

Milestone reference	Rehabilitation milestone	Milestone criteria
RM1	Infrastructure decommissioning and disposal	a) All non-required services disconnected and removed. b) All concrete, bitumen and gravel removed. c) All operational pipelines drained and removed. d) All fencing that is not part of PMLU requirements removed. e) All buildings and footings demolished and/or removed. f) All machinery and equipment removed. g) All surface water drainage infrastructure that is not retained in the final landform removed. h) All rubbish removed.
RM2	Remediation of contaminated land (where required)	a) Contaminated material either remediated in-situ or removed/transported to an approved landfill for disposal and waste tracking information recorded and submitted. b) Contaminated land assessment undertaken by an appropriately qualified person¹ indicates that no contamination unsuitable for the post-mining land use is occurring. If required, a site investigation report including a site suitability statement prepared and submitted in accordance with the provisions of Chapter 7, Part 8 of the EP Act.
RM3	Landform development (reshaping and reprofiling)	Landform development works a) All bulk earthworks and landform reshaping/reprofiling works completed. b) Geotechnical assessment by an appropriately qualified person¹ confirming that long term geotechnical stability has been achieved for each relevant landform. c) Installation of graded drains where slope lengths on slopes of 8° (14%) or greater would exceed 160 m constructed to an engineering specification by an appropriately qualified person¹. Slope d) RA1 final landform slope < 8° (14%). e) RA5 final landform: I. Highwall – achieve target design slope of 24° (44.5%), but a maximum of 70° (274.7%) in competent rock or 45° (100%) in competent clays and weathered material where this demonstrated to reduce the disturbance footprint;

		II. Low wall – maximum 24° (44.5%); and III. Retained access ramp – maximum 6° (10.5%). f) RA6 final landform slope < 9.5° (17%). Residual Void Floor g) RA4 final void floor backfilled to be above regional equilibrium groundwater level.
RM4	Surface preparation (topdressing, scarification, contour ripping/discing, soil amelioration activities)	a) Surface scarification, ripping or discing, along the contour of any slope to a depth of at least 200 mm. b) Prior to each rehabilitation event, soil testing and agronomic analysis undertaken by an appropriately qualified person¹ and a recommendation made for a topsoil/growth media/ameliorant and nutrient combination and depth suitable to achieve the post-mining land use revegetation program. c) Ameliorants applied and incorporated into surface and topsoil/growth media placed at the depth, as recommended by an appropriately qualified person¹.
RM5	Revegetation (seeding and/or planting)	a) Revegetation works by tubestock and/or direct seeding at rates determined for each rehabilitation event drawn from Table 18 Current indicative species and rates for light grazing PMLU or Table 19 Indicative proposed revegetation species for the native fauna ecosystem PMLU (Kogan Creek Mine Transitional PRCP, Version 9, 4 March 2022). b) No later than 12 months from planting, a >50% survival rate for any given perennial species is achieved.
RM6	Achievement of target revegetation criteria	Light Grazing and Fauna Habitat PMLUs: a) Total percentage of ground foliage cover² is >50%. b) No evidence of erosion classified as 'Severe'³. c) No active erosion present as demonstrated by no increase in erosion ratings over time.
RM7	Achievement of target PMLU	Light Grazing PMLU: a) Total percentage of ground foliage cover², organic litter and rock is >75%. b) Land suitability assessment by an appropriately qualified person¹ certifies land has achieved a post-mine land suitability⁴ of 4 or better. c) Minimum of 4 palatable perennial pasture species and 2 shade tree species established (note that shade tree species are to be excluded on RA6).

	d) Evidence of recruitment from rehabilitation monitoring data. e) No evidence of erosion classified as 'Severe'³. f) No active erosion present as demonstrated by no increase in erosion ratings over time. Fauna Habitat PMLU (final void floor and high wall/low wall): g) Ground foliage cover² > 75%. h) Minimum 14 target vegetation species⁵ comprising: I. Grasses and forbs ≥ 4 II. Mid storey species ≥ 6; and III. Canopy species ≥ 4. i) Evidence of fauna habitat features (e.g. tree hollows, fallen timber, rock piles) consistent with analogue fauna habitat sites. j) Evidence of recruitment from rehabilitation monitoring data. k) No evidence of erosion classified as 'Severe'³. l) No active erosion present as demonstrated by no increase in erosion ratings over time. m) Evidence of native fauna species utilisation in the form of fauna spotting, scats, and tracks. n) All safety precautions undertaken in accordance with the relevant legislation—signs comply with AS1319:1994—Safety Signs for the Occupational Environment. o) Access restrictions; either berms or fencing in place. p) Void highwalls and low walls are internally draining. q) Assessment from an appropriately qualified person¹ that the final void does not act as a groundwater sink, the final void floor is above regional equilibrium groundwater levels and the final void is protected from flood water ingress. Water Storage PMLU: r) All retained water storages (banks and spillways) assessed as safe and stable by an appropriately qualified person¹. s) Retained storage water quality parameters to be below the trigger values for livestock drinking water defined in Australian and New Zealand Guidelines for Fresh and Marine Water Quality – Volume 3 Primary Industries — Rationale and Background Information (ANZECC and ARMCANZ 2000).
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		All PMLUs: t) Hazard and Safety Assessment completed by an appropriately qualified person¹ demonstrates hazards in rehabilitation areas are of a similar type and not significantly different to hazards in neighbouring unmined landscapes subject to a similar land use. u) Surface water quality parameters for runoff from all PMLUs to be below the trigger values for aquatic ecosystem values defined in Condamine River Basin Environmental Values and Water Quality Objectives (October 2020 or a later version). v) Evidence that on-lease monitoring bores meet groundwater quality trigger levels as per Table 3 of environmental authority EMPL00417213 (issued 11 November 2021).
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Footnotes:

1. *Appropriately qualified person* means a person who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis on performance relating to the subject matter using the relevant protocols, standards, methods, or literature.
2. *Ground foliage cover* incorporates native perennial grass cover, native annual grass cover, native forbs and other species, native shrubs (<1m height), non-native grass, non-native forbs and shrubs and cryptogam.
3. 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 horizons; root exposure, etc.
Rill/gully erosion	<15 rills and <0.3m deep	15 – 30 rills and <0.3m deep	>30 rills and/or any >0.3m deep
Tunnel erosion	-	-	Present
Mass movement	-	-	Present

4. Department of Science, Information Technology and Innovation and Department of Natural Resources and Mines (2015) *Guidelines for Agricultural Land Evaluation in Queensland* (Second Edition), State of Queensland or later version. (<https://www.publications.qld.gov.au/dataset/qld-agricultural-land-evaluation-guidelines/resource/d6591386-08e2-453f-a6fa-dff2a756215f>)

5. Target woodland vegetation species are *Eucalyptus* spp., *Corymbia* spp., *Acacia* spp. Woodlands associated with Regional Ecosystems 11.7.4 and 11.7.7.6. Condamine River Basin Environmental Values and Water Quality Objectives, State of Queensland, 2020. https://environment.des.qld.gov.au/__data/assets/pdf_file/0017/214226/Condamine-River-Basin.pdf

END OF **PRCP** SCHEDULE