

PRCP schedule

Environmental Protection Act 1994

PRCP schedule PRCP_EPML00392513_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_EPML00392513_V1

PRCP schedule holder(s)

Name(s)	Registered address
Greenvale Silicon Pty Ltd (ACN 097 148 680) Diatomaceous Earth Investments Pty Ltd (ACN 100 157 640)	Level 13, 20 Bridge Street SYDNEY NSW 2001 Suite 1, Level 5, 71 Macquarie Street SYDNEY NSW 2000

Location details

Location(s)
Mining lease (ML) 10279

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

06/06/2022

Date

Chris Wake
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Minerals Business Centre
PO Box 7230, Cairns QLD 4870
Phone: 07 4222 5334
Email: ESCairns@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).

Pursuant to section 318ZB of the EP Act:

- This section applies if progressive certification has been given for a relevant tenure.
- The holder of the environmental authority to which the relevant tenure relates must maintain the certified area for the relevant tenure under the conditions of the authority, or rehabilitation milestones or management milestones under a PRCP schedule, in force when the certification was given (*the existing conditions*).
- Any change to the conditions of the environmental authority, or rehabilitation milestones or management milestones under the schedule, is of no effect to the extent it purports to impose a more stringent obligation for the certified area than an obligation applying under the existing conditions or milestones.
- The obligation under subsection (2) ends on the last of the following to happen –
 - The surrender under resource legislation of the relevant tenure, or part of the relevant tenure;
 - The environmental authority or PRCP schedule ends or ceases to have effect;
 - If the existing conditions include a condition requiring compliance with an obligation after the authority ends or ceases to have effect – compliance with the condition.

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 and management milestone
 - (b) when each rehabilitation milestone and management 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
- 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

Figure 1 – Final Site Design

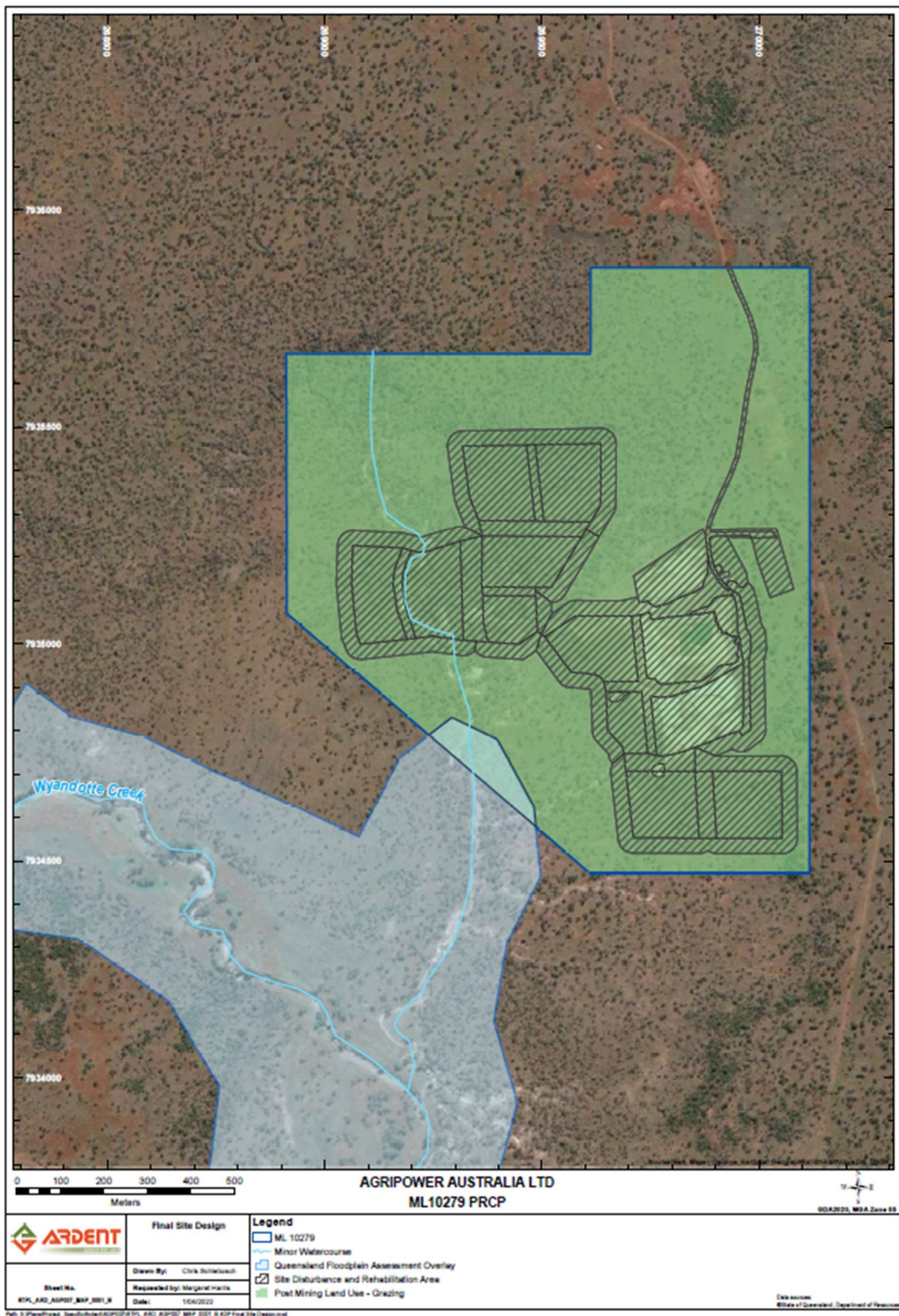
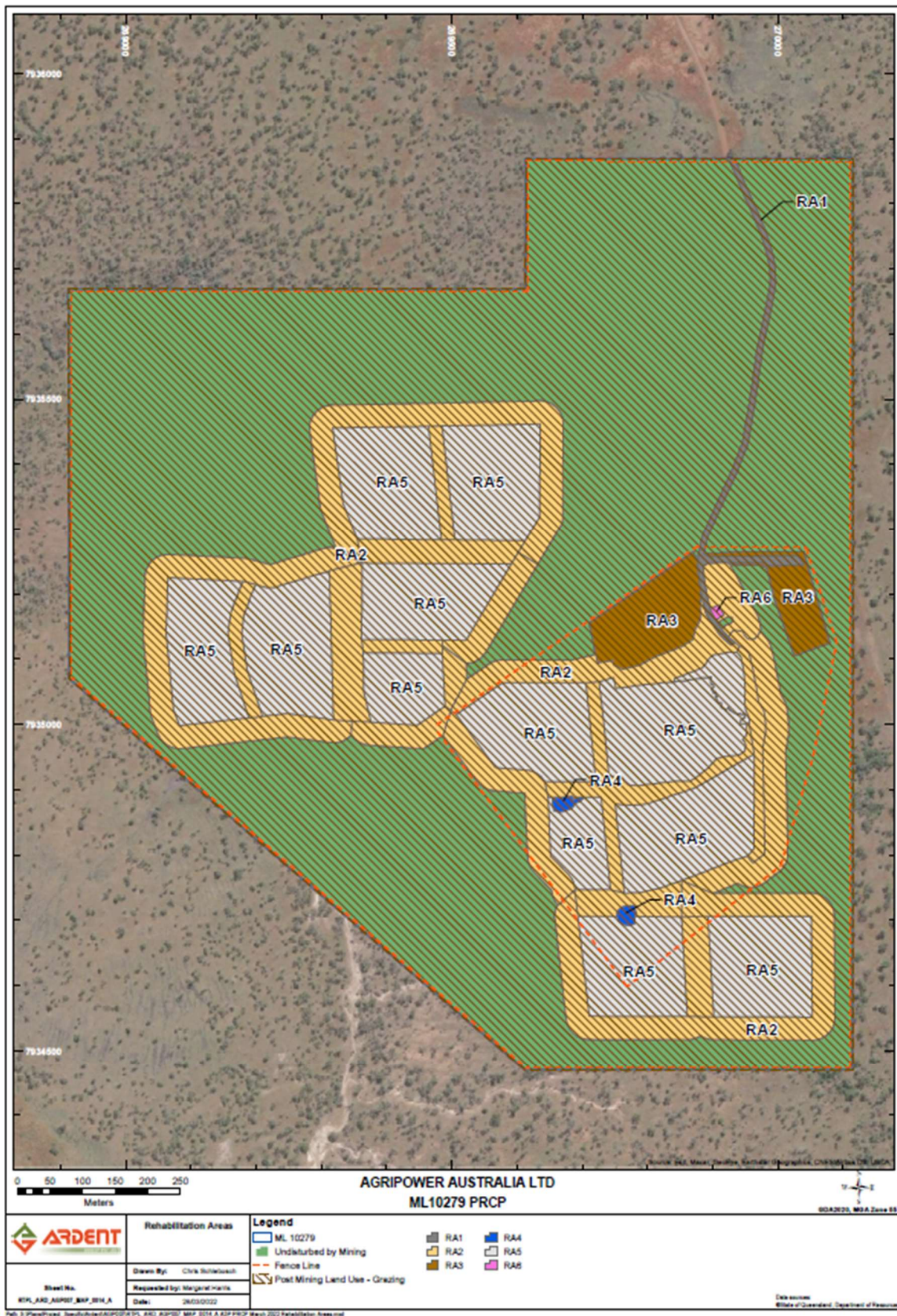


Figure 2 – Reference Map



Section C – Post mining land uses

(RA1) Rehabilitation area 1

Post-mining land uses (PMLU)								
Rehabilitation area				RA1				
Relevant activities				Access roads				
Total rehabilitation area size (ha)				3.71				
Commencement of first milestone: RM7				2049				
PMLU				Low intensity grazing (LIG)				
Date area is available	10/12/2049	10/12/2052	10/12/2053					
Cumulative area available (ha)	3.71							
Milestone completed by	10/12/2050	10/12/2053	10/12/2054					
Milestone Reference	Cumulative area achieved (ha)							
RM7	3.71							
RM4	3.71							
RM5		3.71						
RM6			3.71					

(RA2) Rehabilitation area 2

Post-mining land uses (PMLU)										
Rehabilitation area				RA2						
Relevant activities				Cleared Areas						
Total rehabilitation area size (ha)				22.04						
Commencement of first milestone: RM8				2031						
PMLU				Low Intensity Grazing						
Date area is available	10/12/2031	10/12/2033	10/12/2036	10/12/1938	10/12/2040	10/12/2042	10/12/2044	10/12/2046	10/12/2049	10/12/2051
Cumulative area available (ha)	3.65	3.65	8.34	8.34	12.28	12.28	16.75	16.75	22.04	22.04
Milestone completed by	10/12/2033	10/12/2035	10/12/2038	10/12/2040	10/12/2042	10/12/2044	10/12/2046	10/12/2048	10/12/2051	10/12/2053
Milestone Reference	Cumulative area achieved (ha)									
RM8	3.65		8.34		12.28		16.75		22.04	
RM9	3.65		8.34		12.28		16.75		22.04	
RM2	3.65		8.34		12.28		16.75		22.04	
RM3	3.65		8.34		12.28		16.75		22.04	
RM4	3.65		8.34		12.28		16.75		22.04	
RM5		3.65	3.65	8.34	8.34	12.28	12.28	16.75	16.75	22.04
RM6		3.65	3.65	8.34	8.34	12.28	12.28	16.75	16.75	22.04

(RA3) Rehabilitation area 3

Post-mining land uses (PMLU)										
Rehabilitation area				RA3						
Relevant activities				OVERBURDEN, ORE STOCKPILES AND DRYING PADS						
Total rehabilitation area size (ha)				2.74						
Commencement of first milestone: RM8				2047						
PMLU				Low Intensity Grazing						
Date area is available	10/12/2049	10/12/2050	10/12/2051							
Cumulative area available (ha)	2.74									
Milestone completed by	10/12/2050	10/12/2051	10/12/2053							
Milestone Reference	Cumulative area achieved (ha)									
RM8	2.74									
RM2		2.74								
RM3		2.74								
RM4		2.74								
RM5			2.74							
RM6			2.74							

(RA4) Rehabilitation area 4

Post-mining land uses (PMLU)										
Rehabilitation area				RA4						
Relevant activities				Water Management Structure						
Total rehabilitation area size (ha)				0.146						
Commencement of first milestone: RM10				2052						
PMLU				LIG						
Date area is available	10/12/2052	10/12/2053								
Cumulative area available (ha)	0.146									
Milestone completed by	10/12/2052	10/12/2054								
Milestone Reference	Cumulative area achieved (ha)									
RM10	0.146									
RM2	0.146									
RM3	0.146									
RM4	0.146									
RM5	0.146									
RM6		0.146								

(RA5) Rehabilitation Area 5

Post-mining land uses (PMLU)													
Rehabilitation area						RA5							
Relevant activities						OPEN PITS							
Total rehabilitation area size (ha)						27.96							
Commencement of first milestone: RM11						2025							
PMLU						Low Intensity Grazing							
Date area is available	10/12/2025	10/12/2028	10/12/2029	10/12/2031	10/12/2033	10/12/2036	10/12/2039	10/12/2040	10/12/2042	10/12/2044	10/12/2046	10/12/2049	10/12/2051
Cumulative area available (ha)	2.86	5.33	6.94	9.8	12.18	14.58	15.85	18.13	20.38	23.01	25.5	27.96	27.96
Milestone completed by	10/12/2027	10/12/2030	10/12/2031	10/12/2033	10/12/2035	10/12/2038	10/12/2041	10/12/2042	10/12/2044	10/12/2046	10/12/2048	10/12/2051	10/12/2053
Milestone Reference	Cumulative area achieved (ha)												
RM11	2.86	5.33	6.94	9.8	12.18	14.58	15.85	18.13	20.38	23.01	25.5	27.96	
RM12				9.8		14.58		18.13		23.01		27.96	
RM2				9.8		14.58		18.13		23.01		27.96	
RM3				9.8		14.58		18.13		23.01		27.96	
RM4				9.8		14.58		18.13		23.01		27.96	
RM5				6.94	9.8	12.18	14.58	15.85	18.13	20.38	23.01	25.5	27.96
RM6				6.94	9.8	12.18	14.58	15.85	18.13	20.38	23.01	25.5	27.96

(RA6) Rehabilitation area 6

Post-mining land uses (PMLU)								
Rehabilitation area				RA6				
Relevant activities				Storage of fuel for excavation equipment				
Total rehabilitation area size (ha)				0.03				
Commencement of first milestone: RM1				2050				
PMLU				LIG				
Date area is available	10/12/2050	10/12/2051	10/12/2052					
Cumulative area available (ha)	0.03							
Milestone completed by	10/12/2050	10/12/2052	10/12/2053					
Milestone Reference	Cumulative area achieved (ha)							
RM1	0.03							
RM2	0.03							
RM3	0.03							
RM4	0.03							
RM5		0.03						
RM6			0.03					

Rehabilitation area milestones

Milestone reference	Rehabilitation milestone	Milestone criteria
RM1	Removal of infrastructure and fuel storage	1. Fuel storage for excavation equipment demolished and removed
RM2	Landform reprofiling and trim complete	1. Surface contours reinstated and integrated with adjacent undisturbed land with maximum slope of 10°, with the exception of batter areas with maximum slope of 18° (for batter length of 35m to a maximum height of 10m) 2. Light ripping to improve infiltration 3. Surface drainage does not concentrate flow 4. Sediment controls installed
RM3	Surface treatment	1. An assessment of soil health and suitability has been completed by an appropriately qualified person to confirm soil is suitable for target vegetation establishment including nitrogen levels and verification that the material is weed free 2. Topsoil applied over whole footprint area to thickness of not less than 15cm 3. Ameliorants and fertilizer applied according to recommendations arising from rehabilitation trials
RM4	Revegetation (native pasture grazing)	1. Seeding of native pasture species mix including: a. <i>Heteropogon contortus</i> b. <i>Heteropogon triticeus</i> c. <i>Themeda triandra</i> d. <i>Grewia retusifolia</i> At a rate of not less than 3kg/hectare/species. 2. Species required by Landholder, as follows: a. <i>Astrebla sp</i> (Mitchell grass) b. <i>Dichanthium sericium</i> (Queensland bluegrass) At an initial seeding rate of 1kg/hectare/species 3. Seeding native tree and shrub mix including: a. <i>Petalostigma pubescens</i> b. <i>Ficus opposita</i> c. <i>Diospyos geminate</i> d. <i>Hakea arboescens</i> e. <i>Brachychiton diversifolius</i> f. <i>Corymbia erythrophloia</i>

Milestone reference	Rehabilitation milestone	Milestone criteria
		g. <i>Corymbia dallachiana</i> h. <i>Eucalyptus leptophleba</i> i. <i>Eucalyptus crebra</i> At a rate of not less than 200g/hectare/species - Achieve groundcover projective foliage cover of >75% of analogue site for successive years (before grazing occurs) - Strike rate of native grass seeding to be recorded
RM5	Achievement of vegetative surface requirements	- Achieve native species dominance for groundcover of >75% similarity of analogue site for successive years on slopes of 10° or less - Achieve native species dominance for groundcover of >90% similarity of analogue site for successive years on batter slopes of 18° - Assessment of weed contribution to total groundcover to be <10%. - No active rill or gully development across reinstated surface
RM6	Achievement of post-mining land use to stable condition for grazing	- Certification from a suitably qualified person that the area has achieved stable condition - Surface stability to be less than 0.5t/ha/annum loss through erosion. - Groundcover has achieved >75% of analogue site for slopes of 10° and >90% for slopes between 10-18° - Surface water quality sampled from the monitoring point G1, defined in Schedule C of the EA, complies with the following: - Total dissolved solids <4000 mg/L - pH between 6.5-9.0 - Turbidity (mg/L) +10% of seasonal mean - Fluoride <2 mg/L - Cadmium <0.01 mg/L - Mercury <0.002 mg/L - Arsenic <0.5 mg/L - Copper <1 mg/L - Chromium <1 mg/L - Lead <0.1 mg/L - Nickel <1 mg/L - Zinc <20 mg/L

Milestone reference	Rehabilitation milestone	Milestone criteria
		5. A contaminated land survey carried out by an appropriately qualified person indicates that no contamination unsuitable for the PMLU is occurring 6. Certification by an appropriately qualified person¹ that the abundance of weed and pest species identified in the rehabilitated areas is not greater than at reference sites
RM7	Surface preparation of road	1. Deep rip along recontoured surface 2. Surface suitable for native grass re-establishment without topsoil placement
RM8	Removal of stored materials	1. Waste/overburden/ore removed from footprint area to pit
RM9	Achievement of soil surface requirements	1. Certification by an appropriately qualified person¹ that no sodic materials have been exposed nor remain at surface (if excavated) or if exposed, have been treated with gypsum application
RM10	Removal of retaining structure	1. Drainage of water stored 2. Drying of sediments therein 3. Removal of retaining wall and sediments to pit
RM11	Backfill of pits	1. Backfilling of ore/ waste/overburden to pit 2. All major earthworks within pit footprint complete 3. Batter slopes meet final design specifications 4. Installation of contour berms on backfilled landform 5. Installation of upslope drainage for pit perimeter areas to provide erosion protection on slopes prior to vegetation cover criteria met
RM12	Achievement of surface requirements for backfilled pits to a stable condition	1. Backfilled pits assessed as geotechnically stable by an appropriately qualified person including: a. observations that no slumping is observed or expected in placed material, b. final slope status and geometry (<10° for backfilled materials and <18° for batter slopes), c. condition and engineering characteristics, and d. assessment of failure mechanisms 2. Final landform slope lengths and angles consistent with landform design criteria

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 relative to the subject matter using the relevant protocols, standards, methods or literature.

END OF PRCP SCHEDULE