PRCP schedule

Environmental Protection Act 1994

PRCP schedule PRCP_EPML00967013_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_EPML00967013_V1

PRCP schedule holder

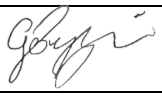
Name(s)	Registered address
Gulf Alumina Pty Ltd ACN: 108 086 371	Level 2 247 Adelaide Street BRISBANE CITY QLD 4000

Location details

Locations
Mining lease (ML) 6025, ML40069, ML40082

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.

	4 July 2025
Signature	Date

Giles Bezzina
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 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

There are no conditions beyond those contained in section 206A of the *Environmental Protection Act 1994* that apply to this PRCP schedule.

General conditions

PRCP1 The holder must for each rehabilitation area, achieve the rehabilitation milestone criteria (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’. The written notification must include precise details of the relevant land area and the date when that land became ‘available for rehabilitation’; and

b. within 90 days of the land becoming ‘available for rehabilitation’, apply to the administering authority to amend this schedule in a way that maximises the progressive rehabilitation of the land to a stable condition, including bring forward achievement of relevant milestones and criteria.

Note: 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.

PRCP3 Where an area achieves a rehabilitation milestone, the holder must continue to achieve the milestone criteria until a surrender for that area is approved.

PRCP4 The holder must maintain a risk register that identifies the risks to not achieving a stable condition for post-mining land uses, and how the risks are being managed or minimised. The risk register must be reviewed annually.

PRCP5 The holder must carry out monitoring of the rehabilitation activities in the rehabilitation areas in accordance with:

i. the monitoring and maintenance program described in the rehabilitation planning part for the activity version V1; and

ii. any requirement under this schedule; and

iii. as necessary to demonstrate achievement of each rehabilitation milestone criteria.

Where there is any inconsistency between this schedule and the rehabilitation planning part the schedule criteria prevail to the extent of the inconsistency.

PRCP6 The holder must make and keep up to date records on:

a. Achievement and maintenance of achievement of each rehabilitation milestone criteria of this schedule.

b. Rehabilitation activities and the results of those activities (including but not limited to, actions taken, date, location, methods, data collected, Quality assurance and quality control (QA/QC), photos, waste tracking and disposal records, appropriately qualified person details and assumptions);

c. Maintenance of rehabilitation and the results of maintenance activities;

d. Monitoring of rehabilitation and the results of monitoring;

e. Details and results of rehabilitation trials;

f. Designs, drawings, specifications and any similar documents developed in accordance with good professional practice in relation to rehabilitation milestones or milestone criteria;

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;

h. Landholder agreements;

i. Details of community consultation in the community consultation register relating to rehabilitation and closure activities.

PRCP7 Records made under PRCP6 must be kept until the relevant environmental authority has been surrendered or cancelled.

PRCP8 Records made under PRCP6 must be provided to the administering authority in the specified format within 10 business days of a written request.

PRCP9 The holder must progressively assess and report on PRCP monitoring data to demonstrate that surface and groundwater quality will achieve the water quality criteria of this schedule.

PRCP10 Prior to 2037, an Appropriately Qualified Person (AQP) must develop an Acid Sulphate Soils Closure Plan (ASSCP) that:

a) Includes a sampling program of all pond walls and embankments at a rate that sufficiently characterises the material in the walls such that the presence and characteristics of potentially acid sulphate soil and acid sulphate soils (PASS/ASS) are identified;

b) Identifies the risks of PASS/ASS exposure under a long-term site closure scenario with specific consideration to erosive processes of all pond walls and embankments; and,

c) Where the potential for PASS/ASS exposure is identified as a risk, the ASSCP must identify appropriate treatments and controls to be implemented to ensure all investigated landforms maintain a stable condition following surrender of the Environmental Authority.

PRCP11 Notwithstanding any other condition of this PRCP schedule, the holder must not cause mining disturbance unless and until such time as that disturbance has an associated rehabilitation outcome provided for in the relevant PRCP schedule.

Definitions

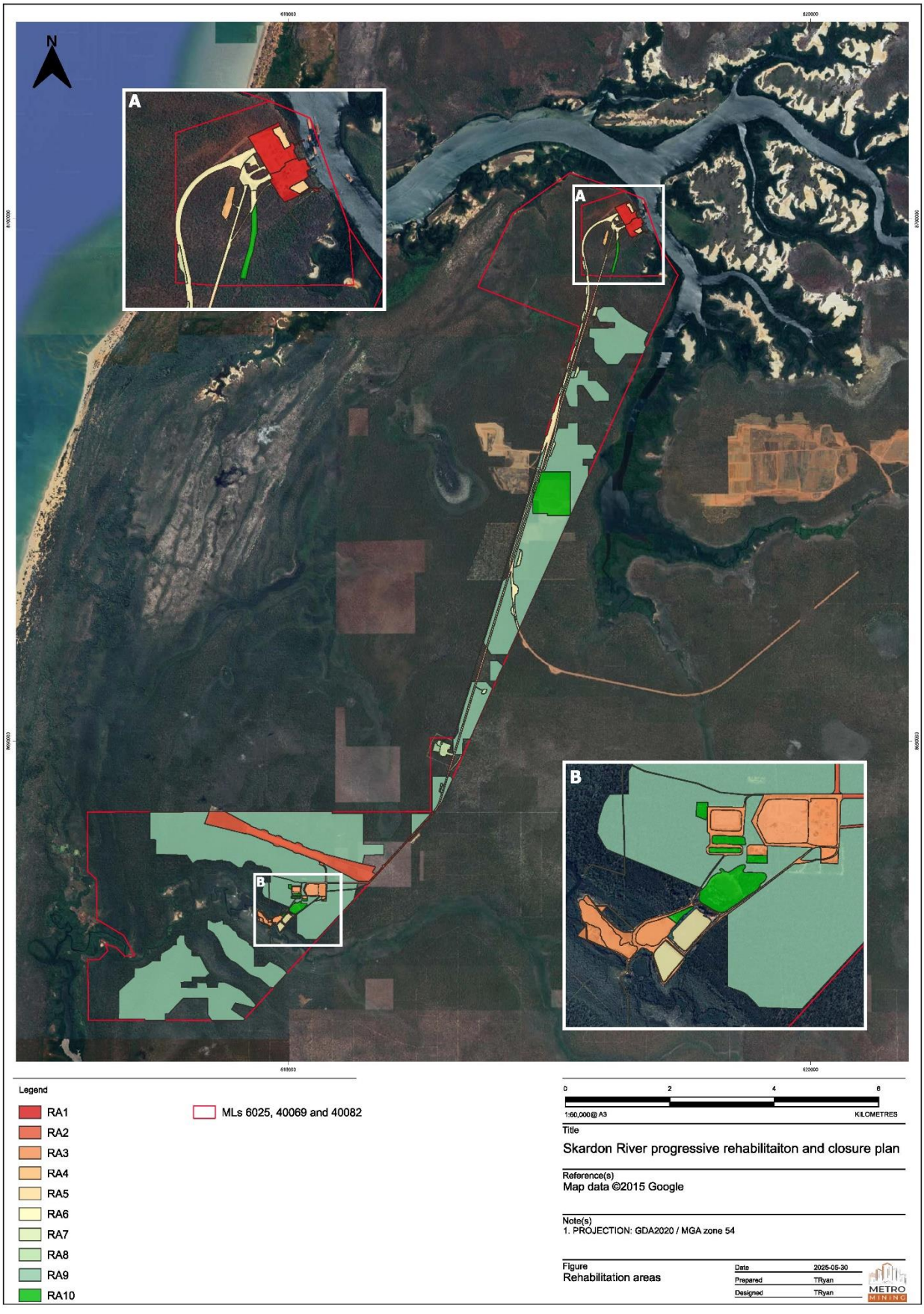
Appropriately qualified person (AQP)	means a person who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis on performance relative to the subject matter using the relevant protocols, standards, methods or literature.
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.
Growth media	means 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.
Rehabilitation activity	means any activity that the holder is required to carry out in relation to this PRCP schedule.
Stable	In relation to land, means landform dimensions are or will be stable within tolerable limits now and in the foreseeable future. Stability includes consideration of geotechnical stability, settlement and consolidation allowances, bearing capacity (trafficability), erosion resistance and geochemical stability with respect to seepage, leachate and related contaminant generation. Land is in a stable condition if: a) the land is safe and structurally stable, and b) there is no environmental harm being caused by anything on or in the land, and c) the land can sustain a post mining land use (PMLU).
Suitably qualified and experienced person (SQP)	Suitability qualified person 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.

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	Port infrastructure
Total rehabilitation area size (ha)	17.54
Commencement of first milestone: RM 1	10/12/2052
PMLU	Retained infrastructure — Port infrastructure
Date area is available	10/12/2052
Cumulative area available (ha)	17.54
Milestone completed by	10/12/2053
Milestone Reference	**Cumulative area achieved (ha)**
RM 1	17.54

(RA2) Rehabilitation area 2

Post-mining land uses (PMLU)	
Rehabilitation area	RA2
Relevant activities	Airstrip
Total rehabilitation area size (ha)	83.89
Commencement of first milestone: RM 1	10/12/2052
PMLU	Retained infrastructure — Airstrip
Date area is available	10/12/2052
Cumulative area available (ha)	83.89
Milestone completed by	10/12/2053
Milestone Reference	**Cumulative area achieved (ha)**
RM 1	83.89

(RA3) Rehabilitation area 3

Post-mining land uses (PMLU)				
Rehabilitation area	RA3			
Relevant activities	Kaolin wet plant			
Total rehabilitation area size (ha)	24.84			
Commencement of first milestone: RM 2	10/12/2039			
PMLU	Native ecosystem			
Date area is available	10/12/2039	10/12/2040	10/12/2041	10/12/2044
Cumulative area available (ha)	24.84	-	-	-
Milestone completed by	10/12/2040	10/12/2041	10/12/2044	10/12/2047
Milestone Reference	**Cumulative area achieved (ha)**			
RM 2	24.84			
RM 3		24.84		
RM 4		24.84		
RM 5		24.84		
RM 6			24.84	
RM 7				24.84

(RA4) Rehabilitation Area 4

Post-mining land uses (PMLU)				
Rehabilitation area	RA4			
Relevant activities	Waste			
Total rehabilitation area size (ha)	1.79			
Commencement of first milestone: RM 2	10/12/2039			
PMLU	Native ecosystem			
Date area is available	10/12/2039	10/12/2040	10/12/2041	10/12/2044
Cumulative area available (ha)	1.79	-	-	-
Milestone completed by	10/12/2040	10/12/2041	10/12/2044	10/12/2047
Milestone Reference	**Cumulative area achieved (ha)**			
RM 2	1.79			
RM 3		1.79		
RM 4		1.79		
RM 5		1.79		
RM 6			1.79	
RM 7				1.79

(RA5) Rehabilitation Area 5

Post-mining land uses (PMLU)	
Rehabilitation area	RA5
Relevant activities	Water storages
Total rehabilitation area size (ha)	6.32
Commencement of first milestone: RM 1	10/12/2052
PMLU	Retained infrastructure — Water storages
Date area is available	10/12/2052
Cumulative area available (ha)	6.32
Milestone completed by	10/12/2053
Milestone Reference	**Cumulative area achieved (ha)**
RM 1	6.32

(RA6) Rehabilitation Area 6

Post-mining land uses (PMLU)	
Rehabilitation area	RA6
Relevant activities	Roads
Total rehabilitation area size (ha)	82.83
Commencement of first milestone: RM 1	10/12/2052
PMLU	Retained infrastructure — Roads
Date area is available	10/12/2052
Cumulative area available (ha)	82.83
Milestone completed by	10/12/2053
Milestone Reference	**Cumulative area achieved (ha)**
RM 1	82.83

(RA7) Rehabilitation Area 7

Post-mining land uses (PMLU)			
Rehabilitation area	RA7		
Relevant activities	Borrow pits		
Total rehabilitation area size (ha)	12.36		
Commencement of first milestone: RM 2	10/12/2039		
PMLU	Native ecosystem		
Date area is available	10/12/2039	10/12/2040	10/12/2043
Cumulative area available (ha)	12.36	-	-
Milestone completed by	10/12/2040	10/12/2043	10/12/2046
Milestone Reference	**Cumulative area achieved (ha)**		
RM 2	12.36		
RM 3	12.36		
RM 4	12.36		
RM 5	12.36		
RM 6		12.36	
RM 7			12.36

(RA8) Rehabilitation Area 8

Post-mining land uses (PMLU)	
Rehabilitation area	RA8
Relevant activities	Mine camp and support infrastructure
Total rehabilitation area size (ha)	7.57
Commencement of first milestone: RM 1	10/12/2052
PMLU	Retained infrastructure - Mine camp and support infrastructure
Date area is available	10/12/2052
Cumulative area available (ha)	7.57
Milestone completed by	10/12/2053
Milestone Reference	**Cumulative area achieved (ha)**
RM 1	7.57

(RA9) Rehabilitation Area 9

Post-mining land uses (PMLU)																											
Rehabilitation area	RA9																										
Relevant activities	Bauxite mine pits																										
Total rehabilitation area size (ha)	1179.91																										
Commencement of first milestone: RM 3	10/12/2025																										
PMLU	Native ecosystem																										
Date area is available	10/12/25	10/12/26	10/12/27	10/12/28	10/12/29	10/12/30	10/12/31	10/12/32	10/12/33	10/12/34	10/12/35	10/12/36	10/12/37	10/12/38	10/12/39	10/12/40	10/12/41	10/12/42	10/12/43	10/12/44	10/12/45	10/12/46	10/12/47	10/12/48	10/12/49	10/12/50	10/12/51
Cumulative area available (ha)	79.74	239.26	239.58	255.54	256.34	257.90	269.34	319.09	330.16	660.06	754.04	851.19	853.07	1053.96	1179.91	-	-	-	-	-	-	-	-	-	-	-	-
Milestone completed by	10/12/26	10/12/27	10/12/28	10/12/29	10/12/30	10/12/31	10/12/32	10/12/33	10/12/34	10/12/35	10/12/36	10/12/37	10/12/38	10/12/39	10/12/40	10/12/41	10/12/42	10/12/43	10/12/44	10/12/45	10/12/46	10/12/47	10/12/48	10/12/49	10/12//50	10/12/51	10/12/52
Milestone Reference	**Cumulative area achieved (ha)**																										
RM 3	79.74	239.26	239.58	255.54	256.34	257.9	269.34	319.09	330.16	660.06	754.04	851.19	853.07	1053.96	1179.91	-	-	-	-	-	-	-	-	-	-	-	-
RM 4		79.74	239.26	239.58	255.54	256.34	257.90	269.34	319.09	330.16	660.06	754.04	851.19	853.07	1053.96	1179.91	-	-	-	-	-	-	-	-	-	-	-
RM 5			79.74	239.26	239.58	255.54	256.34	257.90	269.34	319.09	330.16	660.06	754.04	851.19	853.07	1053.96	1179.91	-	-	-	-	-	-	-	-	-	-
RM 6								79.74	239.26	239.58	255.54	256.34	257.9	269.34	319.09	330.16	660.06	754.04	851.19	853.07	1053.96	1179.91	-	-	-	-	-
RM 7													79.74	239.26	239.58	255.54	256.34	257.90	269.34	319.09	330.16	660.06	754.04	851.19	853.07	1053.96	1179.91

(RA10) Rehabilitation Area 10

Post-mining land uses (PMLU)		
Rehabilitation area	RA10	
Relevant activities	Existing rehabilitation	
Total rehabilitation area size (ha)	66.02	
Commencement of first milestone: RM 6	10/12/2024	
PMLU	Native ecosystem	
Date area is available	10/12/2024	10/12/2030
Cumulative area available (ha)	66.02	-
Milestone completed by	10/12/2030	10/12/2036
Milestone Reference	**Cumulative area achieved (ha)**	
RM 6	66.02	
RM 7		66.02

Rehabilitation area milestones

Milestone reference	Rehabilitation milestone	Milestone criteria
RM1	Infrastructure decommissioning and removal	a) All infrastructure to be retained onsite must be assessed as safe, stable and not causing environmental harm by an AQP. b) Transfer of ownership agreements in place for all infrastructure to be retained. c) Final landform survey confirms no built structures remain other than those that form part of the landholder agreement. d) With the exception of any infrastructure to remain as part of the post-mining land use (PMLU) or where infrastructure is agreed to be retained by the landholder as evidenced by a signed landholder agreement, the following are complete: i. All services have been disconnected, terminated and removed. ii. All buildings and associated infrastructure have been dismantled and removed offsite. iii. All hardstand, concrete areas and roads (bitumen, blue metal, aggregate, etc) have been removed. iv. All fencing that is not part of PMLU requirements have been removed. v. All pipelines have been drained and removed. vi. All waste is removed. vii. All surface water drainage infrastructure has been removed. viii. All drillholes, bores, sediment ponds and sumps have been decommissioned. ix. All machinery and equipment have been removed from site.

Milestone reference	Rehabilitation milestone	Milestone criteria
		e) All dams are dewatered and desilted.
RM2	Remediation of contaminated land	a) Detailed site investigation report, as required under the *Environmental Protection Act 1994*, completed. Including a site suitability statement confirming that land is not contaminated and is suitable for the proposed PMLU. b) Removal or on-site treatment of contaminated water. c) Removal or on-site treatment of contaminated and hazardous material. d) Conduct validation testing to confirm that no contaminated water / materials remain on site.
RM3	Landform development and reshaping / re-profiling	a) All earthworks to achieve final landform completed. b) Landform is free draining with ponding of void depressions (< 3 months per year) and it is consistent with the surrounding landform. c) Maximum slope angle for pit margin batters < 30˚. d) Maximum slope length for pit margin batters < 7 m. e) Certification from an appropriately qualified person (AQP) that the area has achieved a safe and stable condition with no evidence of erosion classified as Moderate or Severe in accordance with the erosion classification framework (**Table 1**) and drainage follows appropriate drainage paths. f) Erosion and sediment control measures are installed as per the construction design and verified by an appropriately qualified person (AQP) as follows: i. drainage controls including: • reducing depth of flow by increasing channel width; • reducing bed slope; • increasing channel roughness; • reducing flow through placement of rock check dams; and

Milestone reference	Rehabilitation milestone	Milestone criteria
		• increasing effective scour resistance through placement of channel liner (e.g. rock armour); ii. erosion controls including: • gravelling and rock mulching; • mulching; • compost blanket; • soil binders; and • revegetation; iii. sediment controls including: • sediment dam; • rock filter dam; • check dam; • buffer zones; and • > sediment fence.
RM4	Surface preparation	a) Ripping of surface compaction completed to promote regeneration – maintain existing vegetation where possible to ensure no increased erosion risk. b) Placement of at least 0.1 m of topsoil. c) Monitoring of pit slopes for areas of active gully erosion: i. prior to onset of wet season (November of each year); ii. following significant rainfall events; and iii. mid-way through the wet season. d) Soil health and suitability is assessed and documented by an AQP to confirm topsoil is suitable for the PMLU and target vegetation establishment. e) Soil testing (root zone 0-30 cm) indicates the following parameters are met: i. pH < 8.5 and > 5.5; ii. Electrical Conductivity (EC_e - saturated paste extract) < 1.5 dS/m (1,500 µS/cm);

Milestone reference	Rehabilitation milestone	Milestone criteria
		iii. Exchangeable Sodium Percentage (ESP) < 6%; iv. Emerson Aggregate Test > 3.
RM5	Revegetation (native ecosystem)	a) Apply seed mix taken from **Table 2 – Priority seed mix** and secondary seed mix taken from **Table 3 – Secondary seed mix**, dependant on availability and monitoring results as assessed by an AQP of germination after application of priority seed mix. b) A minimum seeding rate of 3,510g/ha of the priority seed mix is applied. c) Non-native seed must not be used for the revegetation (except when sterile cover crops are used). d) An assessment of the need for soil amelioration undertaken and soil ameliorants such as fertiliser, gypsum and/or organic matter have been applied at rates determined by an AQP. e) Fertiliser applied at rates described on **Table 8**, unless a different rate is certified by an AQP. f) Application of organic mulch must be considered and informed by an AQP based on results of rehabilitation trials, site conditions or rehabilitation monitoring.
RM6	Achievement of surface requirements (native ecosystem)	a) Total ground cover is greater than 70% of which a minimum of 50% consists of vegetative cover. b) No bare areas greater than 25m^2 are present. c) At least two tree species from **Table 2** are present forming a tree canopy of greater than 16%. d) No declared Noxious Class 1 or 2 weeds are present. e) Dry woodland habitat meets the following: i. BioCondition Score of > 20/60 based on benchmark for Regional

Milestone reference	Rehabilitation milestone	Milestone criteria
		Ecosystem 3.5.36b as detailed in **Table 9 – BioCondition Benchmark for Regional Ecosystem 3.5.36b** and as assessed by an AQP using the modified BioCondition Assessment Manual (version 2.2) methodology. f) Wetter habitat areas meet the following: ii. either BioCondition Score of > 20/60 for Regional Ecosystem 3.3.20 or 3.3.50 as detailed in **Table 10 - BioCondition benchmarks for RE 3.3.20** or **Table 11 - BioCondition benchmarks for RE 3.3.50** and as assessed by an AQP using the modified BioCondition Assessment Manual (version 2.2) methodology. g) Species used in revegetation remain present and show evidence of natural recruitment. Evidence of flora recruitment from rehabilitation monitoring data. h) AQP certifies that: i. there is no moderate or severe sheet, rill or gully erosion present (as defined in Table 1 – Erosion classifications); and ii. mass movement and tunnel erosion are absent. i) Average erosion rate of < 5 t/ha/y within a maximum erosion rate of < 10 t/ha/y. j) Surface water runoff is non-polluting to receiving waters and complies with **Table 4**. k) Soil testing (root zone 0-30 cm) indicates the following parameters are met: i. Electrical conductivity (EC_e – saturated paste extract) <1.5 dS/m (1,500 µS/cm); ii. soil pH < 8.5 and > 5.5; iii. exchangeable sodium percentage (ESP) < 6%. iv. Emerson Aggregate Test > 3.

Milestone reference	Rehabilitation milestone	Milestone criteria
		l) Fauna habitat monitoring in accordance with the BioCondition assessment framework, including: i. tree canopy height for EDL ii. recruitment of dominant canopy species iii. tree canopy cover (%) iv. shrub layer cover (%) v. native plant species richness for: − trees − shrubs − grasses − forbs / other vi. non-native plant cover (%) vii. native perennial grass cover (%) − coarse woody debris (logs or dead timber > 0.1 m diameter and > 0.5 m in length) viii. total number of native plant species ix. percentage ground cover by category (i.e. native vegetation, litter and rocks) x. presence or absence of significant erosion or other potential problems xi. presence of declared noxious Class 1 or 2 weeds
RM7	Achievement of PMLU to stable condition (native ecosystem)	a) Certification from an AQP that the landform is stable. b) Contaminated Land Investigation Document (CLID) completed in accordance with the *Environmental Protection Act 1994*, including a Site Suitability Statement confirming the suitability of the property (all lot/plans within the mining lease area) for the PMLU. c) Total ground cover is greater than 70% of which a minimum of 50% consists of vegetative cover. d) No bare areas greater than 25m^2 are present.

Milestone reference	Rehabilitation milestone	Milestone criteria
		e) At least two tree species from **Table 2** are present forming a tree canopy of greater than 30%. f) No declared Noxious Class 1 or 2 weeds are present. g) Dry woodland habitat meets the following: i. Biocondition Score of > 40/60 based on benchmark for Regional Ecosystem 3.5.36b as detailed in **Table 9 – BioCondition Benchmark for Regional Ecosystem 3.5.36b** and as assessed by an AQP using the modified BioCondition Assessment Manual (version 2.2) methodology; and ii. Wetter habitat areas meet either BioCondition Score of > 20/60 for Regional Ecosystem 3.3.20 or 3.3.50 as detailed in **Table 10 - BioCondition benchmarks for RE 3.3.20** or **Table 11 - BioCondition benchmarks for RE 3.3.50** and as assessed by an AQP using the modified BioCondition Assessment Manual (version 2.2) methodology. h) Certification from an AQP that the area has achieved a safe and stable condition with no evidence of erosion classified as Moderate or Severe in accordance with the erosion classification framework (Table 1), and that drainage follows appropriate drainage paths. i) Average erosion rate of < 5 t/ha/y within a maximum erosion rate of < 10 t/ha/y. j) For a minimum of five consecutive years surface water quality must be monitored monthly during flow at, *but not limited to,* downstream locations specified in **Table 5**, for all quality characteristics listed in **Table 4**. k) Surface water quality results must not exceed the limits in **Table 4**, for any 3 consecutive results over a minimum five-year period.

Milestone reference	Rehabilitation milestone	Milestone criteria
		l) For a minimum of five consecutive years groundwater quality must be monitored at, *but not limited to,* bores and frequency specified in **Table 6**, for all quality characteristics listed in **Table 7**. m) Groundwater quality results must not exceed the limits in **Table 7**, for any 3 consecutive results over a minimum five-year period. n) All retained water storages to be assessed and approved as safe and stable by an AQP. o) Water storages monitored quarterly and contain water that does not exceed the limits in **Table 4**, for a minimum of five consecutive years. p) Weed presence is a maximum of 10% of total vegetative groundcover confirmed by an AQP in annual monitoring. Weed management recommendations to be provided in annual reports. q) Resilience to fire has been demonstrated.

Table 1 - 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 / gully erosion	< 15 rills/transect and < 0.3 m deep	15-30 rills/transect and < 0.3 m deep	> 30 rills/transect and / or any > 0.3 m deep
Tunnel erosion	Absent	Absent	Present
Mass movement	Absent	Absent	Present

Source: NCST (2009) *Australian Soil and Land Survey Field Handbook, 3rd edition*. The National Committee on Soil and Terrain. CSIRO Publishing, Collingwood, Australia.

*Transect 50 m across the contour (Source: Tongway, D. J. and Hindley, N. L. 2005. Landscape Function Analysis: Procedures for Monitoring and Assessing Landscapes. CSIRO Publishing, Canberra, Australia.)

Table 2 - Priority seed mix		
Common name	**Scientific name**	**Indicative sowing rate (g/ha)**
Plume Sorghum (cover crop)	*Sorghum plumosum*	2,500
Lancewood	*Acacia rothii*	150
Melville Island Bloodwood	*Corymbia nesophila*	130
Cooktown Ironwood	*Erythrophleum chlorostachys*	70
Darwin Stringybark	*Eucalyptus tetrodonta*	450
Broad-leaved Paperbark	*Melaleuca viridiflora*	70
Bushman's Clothes Peg	*Grevillea glauca*	70
Swamp Mahogany	*Lophostemon suaveolens*	70
Total		**3,510**

Table 3 - Secondary seed mix			
Common name	**Scientific name**	**Common name**	**Scientific name**
Overstorey species			
Clarkson's Bloodwood	*Corymbia clarksoniana*	Fibre-barked Teatree	*Melaleuca stenostachya*
Blotchy Bloodwood	*Corymbia stockeri*	-	*Melaleuca symphyocarpa*
-	*Corymbia novoguinensis*	Emu Apple	*Owenia vernicosa*
White Gum	*Eucalyptus platyphylla*	Red Bush Apple	*Syzygium suborbiculare*
Cape York Gum	*Eucalyptus brassiana*	Screwpine	*Pandanus spiralis*
Weeping Paperbark	*Melaleuca leucadendra*	Nonda Plum	*Parinari nonda*
Understorey species			
Rosary Pea	*Abrus precatorius*	Sandpaper Fig	*Ficus opposita*
New Guinea Wattle	*Acacia aulacocarpa*	Dalrymple Beech	*Gmelina dalrympleana*
Thick-podded Salwood	*Acacia crassicarpa*	Beefwood	*Grevillea parallela*
Pindan Wattle	*Acacia platycarpa*	Dysentery Bush	*Grewia retusifolia*
Red Ash	*Alphitonia excelsa*	-	*Hakea persiehana*
Bitterbark	*Alstonia spectabilis*	Dwarf Fan Palm	*Livistona muelleri*
Native Grape	*Ampelocissus acetosa*	Yellowberry Bush	*Maytenus cunninghamii*
Currant Bush	*Antidesma parvifolium*	White Cloud Tree	*Maranthes corymbosa*
Wingleaf Whitewood	*Atalaya variifolia*	Mapoon	*Morinda reticulata*
Ironstone Range	*Breynia cernua*	Wild Pear	*Persoonia falcata*
Coffee Bush	*Breynia oblongifolia*	Quinine	*Petalostigma pubescens*
White Beech	*Canarium australianum*	Engraver's Wood	*Planchonella pohlmaniana*
Love-vine	*Cassytha filiformis*	Cocky Apple	*Planchonia careya*
Native Grape	*Cayratia trifolia*	Weeping Ivorywood	*Siphonodon pendulus*
Lolly Bush	*Clerodendron floribundum*	Peanut Tree	*Sterculia quadrifida*

Native Kapok Tree	*Cochlospermum gillivraei*	Mueller's Damson	*Terminalia muelleri*
Medicine bush	*Coelospermum reticulatum*	Swizel Bush	*Timonius timon*
-	*Denhamia obscura*	Milk-bush	*Wrightia saligna*
Pencil Yam	*Dioscorea transversa*	-	*Xanthostemon crenulatus*
Grey Corkwood	*Erythrina vespertilio*	Woody Pear	*Xylomelum scottianum*
Groundcovers and grasses			
Black Seed Grass	*Alloteropsis semialata*	Black Spear Grass	*Heteropogon contortus*
Erect Kerosene Grass	*Aristida holathera*	Giant Spear Grass	*Heteropogon triticeus*
-	*Eriachne armittii*	Plume Sorghum	*Sorghum plumosum*
-	*Eriachne burkittii*		

Table 4 - Surface water limits – Skardon River (EPML00967013)

Quality characteristic	Unit	Limit[a]
Skardon River lower estuary – wet season		
pH	Range	6.4-8.7
Turbidity	NTU	13
Total suspended solids	mg/L	62
Dissolved Aluminium[c]	µg/L	120
Skardon River lower estuary – dry season		
pH	Range	6.8-9.3
Turbidity	NTU	2.9
Total suspended solids	mg/L	16
Dissolved Aluminium[c]	µg/L	130

Skardon River mid-estuary – wet season		
pH	Range	5.9-8.1
Turbidity	NTU	9.9
Total suspended solids	mg/L	29
Dissolved Aluminium[c]	µg/L	95
Skardon River mid-estuary – dry season		
pH	Range	5.6-8.7
Turbidity	NTU	4.5
Total suspended solids	mg/L	22
Dissolved Aluminium[c]	µg/L	120
Skardon River upper estuary – wet season		
pH	Range	5.1-7.8
Turbidity	NTU	4.4
Total suspended solids	mg/L	5
Dissolved Aluminium[c]	µg/L	97
Skardon River upper estuary – dry season		
pH	Range	4.0-8.3
Turbidity	NTU	5.4
Total suspended solids	mg/L	16
Dissolved Aluminium[c]	µg/L	158
Skardon River freshwater – wet season		
pH	Range	4.5-6.2
Turbidity	NTU	1.6
Total suspended solids	mg/L	5
Electrical conductivity	µS/cm	25
Dissolved Aluminium[c]	µg/L	53
Skardon River freshwater – dry season		
pH	Range	4.8-7.2
Turbidity	NTU	1.7

Total suspended solids	mg/L	5
Electrical conductivity	µS/cm	29
Dissolved Aluminium[c]	µg/L	31
Namaleta Creek freshwater – wet Season		
pH	Range	3.8-7.7
Turbidity	NTU	7.5
Total suspended solids	mg/L	5
Electrical conductivity	µS/cm	6
Dissolved Aluminium[c]	µg/L	190
Namaleta Creek freshwater – dry season		
pH	Range	2.6-8.8
Turbidity	NTU	5.5
Total suspended solids	mg/L	5
Electrical conductivity	µS/cm	3,949
Dissolved Aluminium[c]	µg/L	140
Water Storage	**Unit**	**Limit**
Port area sediment ponds		
pH	pH units	5.0-8.5
Turbidity	NTU	5.5
Total suspended solids	mg/L	5
Electrical conductivity	µS/cm	323
Dissolved Aluminium[c]	µg/L	89
Major ions	mg/L	For interpretation purposes only
Redox potential	mV	
Kaolin mine water storage ponds		
pH	pH units	5.0-8.5
Turbidity	NTU	5.5
Total suspended solids	mg/L	5
Electrical conductivity	µS/cm	323

Dissolved Aluminium[c]	µg/L	380
Major ions	mg/L	For interpretation purposes only
Redox potential	mV	

a. The limit is the 80th percentile of background data

- Aluminium must be measured as 'dissolved' (from analysis of a field filtered sample) and total (unfiltered).
- Limits for aluminium applies to dissolved results.
- Major ions must include calcium, magnesium, sodium, potassium, chloride, sulfate as SO_4, Bicarbonate alkalinity as $CaCO_3$, Total alkalinity as $CaCO_3$, Hydroxidealkalinity as $CaCO_3$, Carbonate alkalinity as $CaCO_3$.

Table 5 - Receiving waters monitoring locations (Skardon River - EPML00967013)

Monitoring locations	Easting (MGA94, Z54)	Northing (MGA94, Z54)	Receiving water location description
Skardon River lower estuary			
W5	610246	8700107	8 km downstream of the SRBP MIA, 18.8 km to BH6-BH1 haul road watercourse crossover (following the watercourse)
W4	614292	8701663	1.2 km downstream of the SRBP MIA, 11.8 km BH6-BH1 haul road watercourse crossover (following the watercourse)
Skardon River mid-estuary			
W3	617295	8699517	700 m upstream of the SRBP MIA, 10 km downstream BH6-BH1 haul road watercourse crossover (following the watercourse)
W6	617697	8698323	2.1 km upstream of the SRBP MIA, 8.6 km downstream BH6-BH1 haul road watercourse crossover (following the watercourse)
W11	618248	8698956	2 km upstream of the SRBP MIA on the northern branch of the Skardon River upper estuary
W12	616599	8696123	6 km upstream of the SRBP MIA on the southern branch of the Skardon River
W13	616984	8699816	250 m upstream of the MOF
W14	616754	8700347	350 m downstream of the MOF
MOF	616824	8699960	At the port facility
Skardon River upper estuary			
W1	621578	8694834	14.2 km upstream of the SRBP MIA, 12.3 km downstream BH6-BH1 haul road watercourse crossover (following the watercourse)
W2	620194	8694108	10.4 km upstream of the SRBP MIA, 9 km downstream BH6-BH1 haul road watercourse crossover (following the watercourse)
W8	616414	8692916	8.1 km upstream of the SRBP MIA, 2.7 km downstream BH6-BH1 haul road watercourse crossover (following the watercourse)
Skardon River freshwater			
W9	617753	8691098	175 m downstream of BH6, East to BH1 haul road
W10	617844	8690762	151 m upstream of BH6 East to BH1 haul road

Namaleta Creek freshwater			
S1a	610225	8686114	1,285 m upstream of kaolin pits
S6	609392	8686912	Approximately 600 m downstream of release point S9
S9	609644	8686416	100 m downstream of the S3 RP

Figure 3. Receiving waters monitoring locations

Table 6 - Groundwater monitoring locations

Monitoring location		Location (GDA)		Surface RL (m)[a]	Screened interval RL (m)
		Latitude	Longitude		
Zone A					
Namaleta Creek cluster	G1	11.870103041	142.026568065	10.5	3-12
	G2	11.875215865	142.015441903	9.38	11-14
	G3	11.876730319	142.006624841	4.45	4-12
	G4	11.881143472	142.003923506	2.3	1-6
	G6	11.861899390	141.999464916	6.56	6-8
	G7	11.861118618	141.982285828	5.75	6-10
	G14	11.873554127	142.002206478	2.18	6-12
Camp cluster	C1	11.843356546	142.033986149	10.9	15-21
	G8	11.842470949	142.006205502	6.57	6-10
	G20	11.849141126	142.037110657	12.55	4.32-10.32
	G21	11.848525800	142.037236851	11.45	8.36-13.44
	G39	11.839694	142.044088	12.48	5.41-11.16
Zone B					
BH1 area	G31	11.799724700	142.132237583	7.4	11.5-17.5
BH1 mining area cluster	G35	11.793650359	142.124943995	17.89	15.7-21.7
	G37	11.803235743	142.087518444	14.17	16-22
	G38	11.790138650	142.083780558	5.16	6.7-12.7
Camp cluster	C3	11.824371995	142.057458639	11.2	15-21
	G9	11.821397542	142.047598411	12.24	11.75-14.75
Zone C					
BH6 mining area cluster	G10	11.801539856	142.054158054	10.51	8.9-11.9
	G17	11.774447521	142.058286053	7.44	26.5-31.5

	G29	11.785970175	142.040296198	5.52	11.5-11.75
	G33	11.809882934	142.033878819	8.36	13.5-19.5
	G34	11.803361992	142.031816815	7.57	12.9-18.9
Port area	G27	11.756877599	142.070699039	3.42	6.18-11.35
Port area main cluster	G5	11.761854980	142.070231904	2.98	4-10
	G22	11.760892528	142.065805022	5.77	7.4-11.82
	G23	11.760822283	142.065244972	6.11	6.26-9.71
	G32	11.762549744	142.065132319	6.35	15.5-21.5

a. RL must be measured at the top of the bore casing to the nearest 5 cm.

Figure 4. Groundwater monitoring locations

Table 7 – Groundwater limit and monitoring frequency

Quality characteristics	Unit	Limit[a]	Monitoring frequency
Aluminium	µg/L	**150** for all monitoring bores except C1 and G21	Monthly
		200 for monitoring bore C1	
		240 for monitoring bore G21	
Arsenic	µg/L	**13**	Quarterly
Cadmium	µg/L	**0.3** for monitoring bore G33	
		0.2 for all monitoring bores other than G33	
Chromium	µg/L	**1**	
Copper	µg/L	**1.4** for monitoring bores G17, G20, G23, G32 and G38	Quarterly
		42 for monitoring bores C1, G5 and G6	
		10 for monitoring bores C3, G1, G2, G3, G7, G8, G9, G21, G22, G29, G31, G33, G34, G35, G37 and G39	
		17 for monitoring bore G4	
		19 for monitoring bore G10	
		50 for monitoring bore G14	
		4.3 for monitoring bore G27	
Iron	µg/L	**5,050** for monitoring bores G7, G8, G17, G27, G29, G32 and G34	Quarterly
		1,300 for monitoring bores G2, G5, G21, G22 and G31	
		200 for monitoring bores G1, G3, G6, G10, G14, G20, G35, G37, G38 and G39	
		340 for monitoring bore C1	
		217 for monitoring bore C3	
		1,360 for monitoring bore G4	
		453 for monitoring bore G9	

Quality characteristics	Unit	Limit[a]	Monitoring frequency
		223 for monitoring bore G23	
		6,285 for monitoring bore G33	
Lead	µg/L	**3.4** for all monitoring bores	Quarterly
Manganese	µg/L	**1,900** for all monitoring bores	Quarterly
Nickel	µg/L	**11** for all monitoring bores	Quarterly
Vanadium	µg/L	**6** for all monitoring bores	Quarterly
Zinc	µg/L	**73** for all monitoring bores except C1 and G37	Quarterly
		135 for monitoring bore C1	
		100 for monitoring bore G37	
Sulfate	mg/l	**70** for monitoring bore C1	Monthly
		27 for monitoring bores C3, G1, G2, G4, G5, G6, G7, G8, G9, G10, G14, G20, G21, G22, G23, G35, G37, G38 and G39	
		37 for monitoring bore G3	
		150 for monitoring bores G17 and G29	
		1,200 for monitoring bore G27	
		109 for monitoring bore G31	
		35 for monitoring bore G32	
		84 for monitoring bore G33	
		100 for monitoring bore G34	
Electrical Conductivity	µS/cm	**233** for monitoring bores C1, C3, G1, G2, G4, G5, G6, G7, G8, G9, G10, G14, G20, G21, G22, G23, G35, G37, G38 and G39	Monthly
		1,100 for monitoring bore G3	
		910 for monitoring bore G17	
		21,450 for monitoring bore G27	

Quality characteristics	Unit	Limit[a]	Monitoring frequency
		779 for monitoring bore G29	
		403 for monitoring bore G32	
		1,600 for monitoring bore G34	
		1,200 for monitoring bores G31 and G33	
pH	pH units	Minimum of **4.2** and maximum of **6.5** for monitoring bore C1	Monthly
		Minimum of **4.1** and maximum of **6.5** for monitoring bore G6	
		Minimum of **4.2** and maximum of **6.5** for monitoring bores G22 and G23	
		Minimum of **4.3** and maximum of **7.2** for monitoring bores G17 and G31	
		Minimum of **4.3** and maximum of **6.5** for monitoring bores G10, G29, G33 and G34	
		Minimum of **4.3** and maximum of **6.5** for all bores other than C1, G6, G10, G17, G22, G23, G29, G31, G33 and G34	
Turbidity	NTU	For interpretation only.	Monthly
Total Nitrogen	µg/L	**3150** for monitoring bore G2	Monthly
		1,320 for monitoring bore G23	
		1,730 for monitoring bore G35	
		1,000 for monitoring bores C1, C3, G1, G3, G4, G5, G6, G7, G8, G9, G10, G14, G17, G20, G21, G22, G27, G31, G32, G33, G34, G37, G38 and G39	
		1,400 for monitoring bore G29	
Total Phosphorus	µg/L	**3,385** for monitoring bore G2	Monthly
		184 for monitoring bores C1, G1, G4, G5, G6, G7, G22, G23, G27, G31, G32, G37, G38 and G39	
		398 for monitoring bore C3	
		240 for monitoring bore G3	
		269 for monitoring bore G8	
		195 for monitoring bore G9	

Quality characteristics	Unit	Limit[a]	Monitoring frequency
		340 for monitoring bore G10	
		372 for monitoring bore G14	
		214 for monitoring bore G17	
		162 for monitoring bore G20	
		619 for monitoring bore G21	
		453 for monitoring bore G29	
		487 for monitoring bore G33	
		443 for monitoring bore G34	
		1,000 for monitoring bore G35	
Nitrate	µg/L	**1,190** for monitoring bore G23	Monthly
		320 for monitoring bores C1, C3, G1, G3, G4, G5, G6, G7, G8, G9, G10, G14, G17, G20, G21, G27, G29, G31, G32, G33, G34, G35, G37, G38 and G39	
		392 for monitoring bore G2	
		429 for monitoring bore G22	
Escherichia coli	cfu/100 ml	**36** for monitoring bores C1, C3, G8, G9, G20, G21 and G39	Quarterly
		Not applicable to monitoring bores other than C1, C3, G8, G9, G20, G21 and G39	
Major Ions [c]	mg/L	For interpretative purposes only	Quarterly

a. The limit is the 80th percentile of background data

- 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
- Major ions must include calcium, magnesium, sodium, potassium, chloride, sulfate as SO_4, Bicarbonate alkalinity as CaCO3, Total alkalinity as $CaCO_3$, Hydroxide alkalinity as $CaCO_3$, Carbonate alkalinity as $CaCO_3$.

Table 8 Soil ameliorants and fertilisers

Ameliorant / fertiliser	Topsoil	Claystone
Post spreading		
CK55s	600 kg/ha	-
Zinc Sulphate	50 kg/ha	-
Lime[1]	1 t/ha	1 t/ha
Nitrophoska Special	-	600 kg/ha
Dressing[1]		
CK55s	300 kg/ha	-
Lime	-	1 t/ha
Nitrophoska Special	-	300 kg/ha

[1]Applied six months post spreading

Table 9 – BioCondition Benchmark for Regional Ecosystem 3.5.36b

Attribute	Weighting	3.5.36b Benchmark values	Revegetation 7 years after seeding	Stable Condition – 15 years + on trajectory to achievement
Tree Canopy height	5	26m	3 (6.5m)	3
Recruitment of canopy species	5	100	0	3
Tree Canopy cover	5	33%	2 (min 16.5%)	5
Shrub cover	5	2%	3 (0.2%)	5
Native plant species richness of 4 lifeforms	20	Trees – 6 Shrubs – 12 Grasses – 6 Forbs - 14	10 = 2 trees, 3 shrubs, 2 grasses and 4 forbs	12.5 – 5 trees
Non-native plant cover	10	0	5	5
Native perennial grass cover	5	31%	3 – 15.5%	3
Organic litter cover	5	54%	3 = 5.5%	5 =27%
	60		Score greater than 20	Score greater than 40

Table 10 - BioCondition Benchmark for Regional Ecosystem 3.3.20 (as determined by 3 reference sites)

Attribute	Weighting	3.3.20 Benchmark values (averaged from data from 3 sites provided)	Revegetation 7 years after seeding	Stable Condition – 15 years + on trajectory to achievement
Tree Canopy height	5	6.4m	3 (3.2m)	3
Recruitment of canopy species	5	100	0	3
Tree Canopy cover	5	58%	2 (min 29%)	5
Shrub cover	5	0	5	5
Native plant species richness of 4 lifeforms	20	Trees – 7 Shrubs – 4 Grasses – 5 Forbs - 4	10 = 3 trees, 2 shrubs, 2 grasses and 2 forbs	12.5 – 5 trees
Non-native plant cover	10	0	5	5
Native perennial grass cover	5	33%	3 – 16.5%	3
Organic litter cover	5	42%	3 = 21%	5 =27%
	60		Score greater than 20	Score greater than 40

Trees = *Parinari nonda, Melaleuca viridiflora, Corymbia clarksoniana, Petalostigma banksia. Livistona muelleri, Acacia rothii and Grevillea glauca*
Shrubs = *Indigofera pratenensis, Denhamia cunninghamii; Xylomelium scottianum, Melaleuca saligna, Planchoria careya, Corymbia nesophila, Personia falcata, Melaleuca stenostachya, Asteromyrtus symphyocarpa*
Grasses = *Eriachne burkitii, Eulalia mackinlayi, Mnesithea rottboelloides, Aristida utilis, Aristida warburgii*
Forbs = *Eriocaulon sp., Scleria sphacelata, Drosera indica, Utricularia chrysanthes*

Table 11 - BioCondition Benchmark for Re. 3.3.50 (as determined by 3 reference sites)

Attribute	Weighting	3.3.50 Benchmark values (averaged values from data of 3 sites provided)	Revegetation 7 years after seeding	Stable Condition – 15 years + on trajectory to achievement
Tree Canopy height	5	26m	3 (6.5m)	3
Recruitment of canopy species	5	100	0	3
Tree Canopy cover	5	36%	2 (min 16.5%)	5
Shrub cover	5	3%	3 (1.5%)	5
Native plant species richness of 4 lifeforms	20	Trees – 5 Shrubs – 2 Grasses – 0 Forbs - 3	10 = 1.5 trees, 1 shrub and 3.5 forbs	12.5 – 5 trees
Non-native plant cover	10	0	5	5
Native perennial grass cover	5	31%	3 - 0%	3
Organic litter cover	5	49%	3 ≤ 24.5%	5 =%
	60		Score greater than 20	Score greater than 40

Trees = *Melaleuca fluviatilis, Melaleuca quinquinerva, Asteromyrtus symphyocarpa, Corymbia nonoguinensis, Livistona muelleri*
Shrubs = *Melaleuca fluviatilis, Melaleuca leucodendra*
Grass =0
Forbs = *Schoenus spartens, Scleria brownii, Eriocaulon sp.*

END OF **PRCP** SCHEDULE