PRCP schedule

Environmental Protection Act 1994

PRCP schedule P-PRCP- 100702802

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

PRCP schedule: P-PRCP-100702802

PRCP schedule holder(s)

Name(s)	Registered address
Stanmore IP South Pty Ltd ACN: 080 772 283	Level 32, 12 Creek Street Brisbane, QLD, 4001

Location details

Location(s)
ML 700046, ML 700047, ML 700048

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.

	24/09/2024
Signature	Date

Juliana McCosker
Department of Environment, 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 D – Non-use management area.

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 In carrying out a relevant activity under the schedule, the EA holder must comply with a requirement stated in the environmental authority EA0002817 relevant to carrying out the activity.

PRCP2 The holder must comply with each milestone criterion stated in the schedule.

PRCP3 Where land becomes available for rehabilitation earlier than the nominated 'Date area is available' or is able to commence earlier than the 'Commencement of first milestone' date, 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.

PRCP4 Where an area achieves a rehabilitation milestone, it must be maintained and continue to comply with the rehabilitation milestone criteria for that rehabilitation milestone until the next rehabilitation milestone is achieved.

PRCP5 Where an area has achieved the final rehabilitation management (RM7) and improvement area milestone (MM3), it must be maintained and continue to comply with the rehabilitation and improvement area milestone criteria for the final milestone and continue to be in a stable condition, until the area is progressively certified according to the requirements of the EP Act, or that area is surrendered.

PRCP6 Monitoring and maintenance must be carried out in accordance with:

i. the monitoring and maintenance program described in the rehabilitation planning part relating to this PRCP schedule; and

ii. any requirement under this PRCP schedule.

PRCP7 The holder must keep records in relation to relevant matters and provide such records to the administer authority on request. Relevant matters for this condition include, but are not necessarily limits to, the following:

i. Rehabilitation activities and the results of these activities

ii. Maintenance activities and the results of maintenance activities

iii. Monitoring activities and the results of monitoring

iv. Certifications, assessments, investigations, inspections, audits, or any similar processes carried out in relation to rehabilitation milestones or milestone criteria.

PRCP8 Where the surface water quality at the downstream site exceeds the upstream site result as per PRCP criteria in RM7.h), an Appropriately Qualified Person (AQP)[1] must complete an assessment of the risk[2] of rehabilitation not achieving a stable condition[3] within 30 days of receiving the relevant sampling results.

PRCP9 The risk assessment/s as per **PRCP8** must dictate the further actions based on:

i. Where there is no risk to achieving a stable condition, then no further action is to be taken; or
ii. Where there is a risk to achieving a stable condition, then an assessment of potential environment harm[4] and any changes or rectification actions to rehabilitation activities must be determined and implemented.

PRCP10 The EA holder of a PRCP schedule must commission an audit of the schedule by a rehabilitation auditor[5] for the following periods (each an ***audit period***)

i. the 3-year period starting on the day the schedule takes effect;
ii. each 3-year period starting on the day after the previous audit period ended.

PRCP11 The EA holder, within 4 months after the end of each audit period, give the administering authority:

i. the rehabilitation auditor's report (an ***audit report***) about the audit, that complies with **PRCP12,** and
ii. a declaration by the authorised representative of the EA holder, for the audit report stating the EA holder—
    - has not knowingly given false or misleading information to the rehabilitation auditor; and
    - has given all relevant information to the rehabilitation auditor.

PRCP12 An audit report for a PRCP schedule must be in the approved form, and include the following:

i. a statement about whether the holder has complied with the schedule during the audit period, including—
    - details of actions the holder has taken, or failed to take, in relation to the rehabilitation milestones and management milestones under the schedule; and
    - whether the holder has complied, or failed to comply, with conditions imposed on the schedule; and
    - whether information given to the administering authority under this Act about rehabilitation carried out under the schedule is accurate;
ii. an assessment of whether the post-mining land use for land the subject of the schedule is likely to be achieved, having regard to the rehabilitation that has been and is to be carried out under the schedule;
iii. recommendations about actions the holder should take to ensure rehabilitation milestones and management milestones are achieved or conditions of the schedule are complied with;
iv. the other information the administering authority considers necessary to decide whether to take action to amend the schedule under part 6 of the *Environmental Protection Act* 1994 (Qld) (EP Act).

PRCP13 The EA holder must provide to the Department, bore specific groundwater level threshold suitable for post-closure phase to complete PRCP schedule **Appendix 9**: **Groundwater level thresholds**, within 12 months prior to completion of first milestone on 10 December 2026.

[1] **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 relating to the subject matter using the relevant protocols, standards, methods or literature.

[2] The AQP must comply with the risk assessment methodology as stipulated by section 3.7 of the PRCP Guideline.

[3] A stable condition criteria defined in RM7.

[4] Environmental harm is any adverse effect, or potential adverse effect (whether temporary or permanent and of whatever magnitude, duration or frequency) on an environmental value, and includes environmental nuisance.
Environmental harm may be caused by an activity—
(a)whether the harm is a direct or indirect result of the activity; or
(b)whether the harm results from the activity alone or from the combined effects of the activity and other activities or factor

[5] Means a person who meets the requirements mentioned in section 288(1) of the EP Act.

PRCP14 The EA holder must provide to the Department bore specific limits for MBID08 and MBID10 for quality characteristics identified in PRCP schedule **Appendix 8: Groundwater quality limits**, within 12 months prior to completion of first milestone on 10 December 2026.

END OF CONDITIONS

Section B - Final site design and reference maps

Figure 1 – Final site design

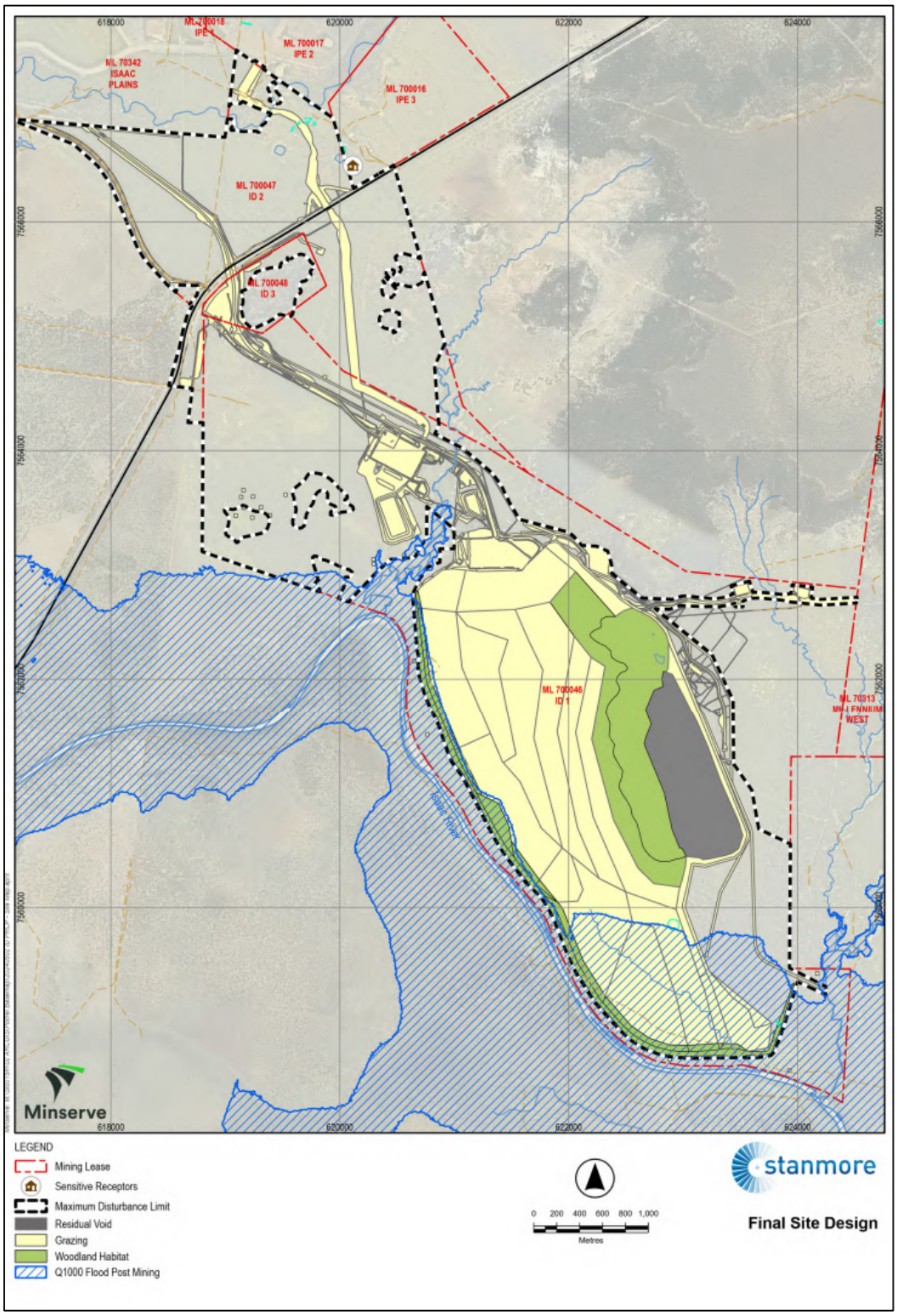
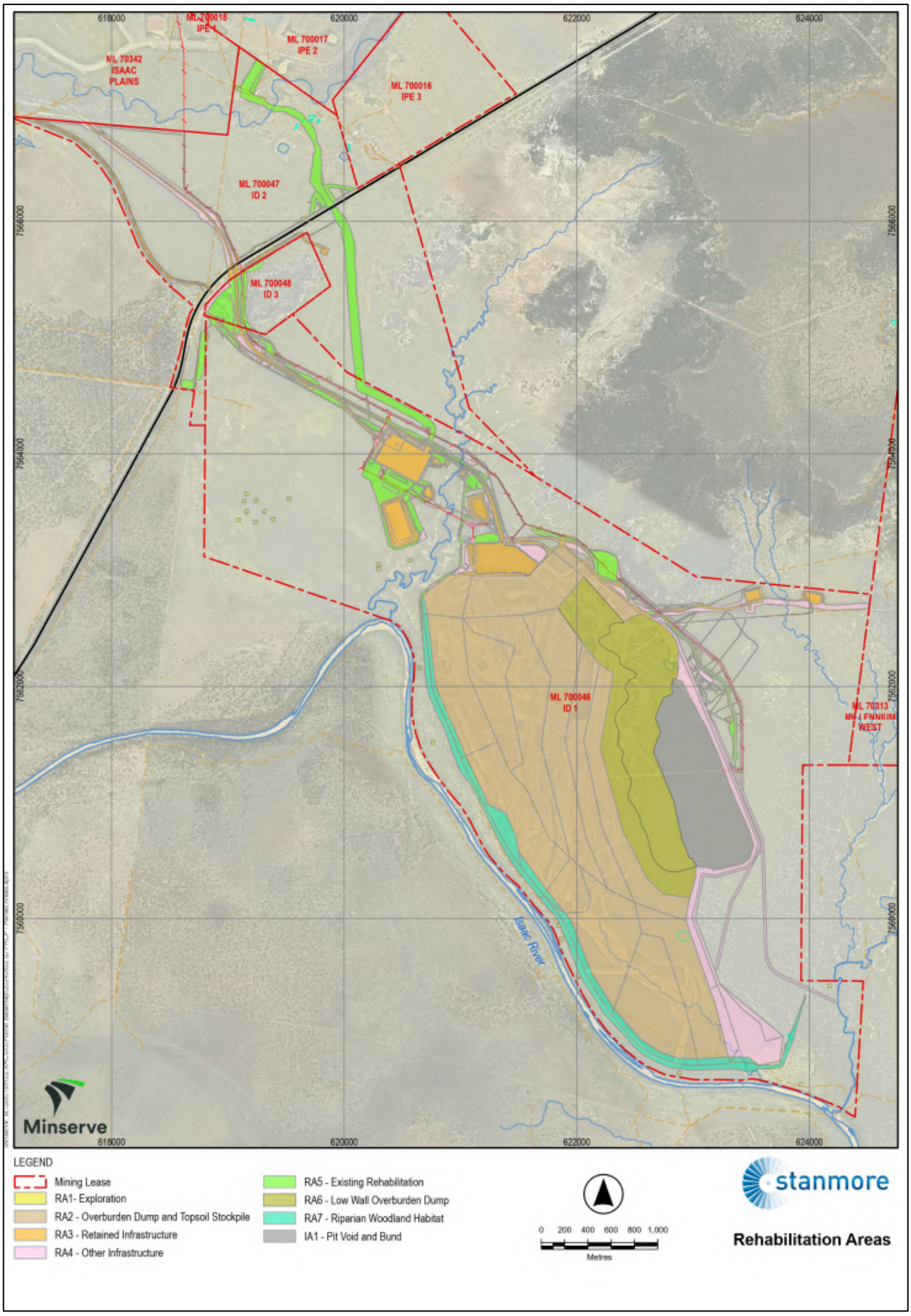


Figure 2 – Rehabilitation Areas



Section C – Post mining land uses

(RA1) Rehabilitation Area 1

Post-mining land uses (PMLU)						
Rehabilitation area	RA1					
Relevant activities	Exploration					
Total rehabilitation area size (ha)	4.1					
Commencement of first milestone: RM3	10/12/2024					
PMLU	Grazing					
Date area is available	**10/12/2024**	**10/12/2025**	**10/12/2028**	**10/12/2034**	**10/12/2040**	**10/12/2044**
Cumulative area available (ha)	**2.3**	**2.3**	**2.3**	**4.1**	**4.1**	**4.10**
Milestone completed by	**10/12/2025**	**10/12/2028**	**10/12/2034**	**10/12/2040**	**10/12/2044**	**10/12/2046**
Milestone Reference						
RM3	2.3			4.1		
RM4	2.3			4.1		
RM5	2.3			4.1		
RM6		2.3			4.1	
RM7			2.3			4.1

(RA2) Rehabilitation Area 2

Post-mining land uses (PMLU)								
Rehabilitation area	RA2							
Relevant activities	Overburden dumps and topsoil stockpiles							
Total rehabilitation area size (ha)	468.5							
Commencement of first milestone: RM2	10/12/2025							
PMLU	Grazing							
Date area is available	**10/12/2025**	**10/12/2026**	**10/12/2027**	**10/12/2028**	**10/12/2029**	**10/12/2030**	**10/12/2031**	**10/12/2032**
Cumulative area available (ha)	**40.6**	**81.3**	**104.8**	**135.9**	**188.8**	**242.5**	**286.0**	**369.0**
Milestone completed by	**10/12/2026**	**10/12/2027**	**10/12/2028**	**10/12/2029**	**10/12/2030**	**10/12/2031**	**10/12/2032**	**10/12/2034**
Milestone Reference	**Cumulative area achieved (ha)**							
RM2	40.6	81.3	104.8	135.9	188.8	242.5	286.0	369.0
RM3	40.6	81.3	104.8	135.9	188.8	242.5	286.0	369.0
RM4		40.6	81.3	104.8	135.9	188.8	242.5	319.9
RM5		40.6	81.3	104.8	135.9	188.8	242.5	319.9
RM6					40.6	81.3	104.8	188.8
Post-mining land uses (PMLU)								
Date area is available	**10/12/2034**	**10/12/2036**	**10/12/2038**	**10/12/2040**	**10/12/2042**	**10/12/2044**		
Cumulative area available (ha)	**468.5**	**468.5**	**468.5**	**319.9**	**406.4**	**468.5**		
Milestone completed by	**10/12/2036**	**10/12/2038**	**10/12/2040**	**10/12/2042**	**10/12/2044**	**10/12/2046**		
Milestone Reference	**Cumulative area achieved (ha)**							
RM2	468.5							
RM3	468.5							
RM4	406.4	468.5						
RM5	406.4	468.5						
RM6	286.0	369.0	468.5					
RM7	81.3	135.9	242.5	319.9	406.4	468.5		

(RA3) Rehabilitation Area 3

Post-mining land uses (PMLU)			
Rehabilitation area	RA3		
Relevant activities	Landholder retained infrastructure (Roads and Dams)		
Total rehabilitation area size (ha)	72.9		
Commencement of first milestone: RM1	10/12/2040		
PMLU	Retained infrastructure supporting grazing		
Date area is available	**10/12/2040**	**10/12/2042**	**10/12/2044**
Cumulative area available (ha)	**72.9**	**72.9**	**72.9**
Milestone completed by	**10/12/2042**	**10/12/2044**	**10/12/2046**
Milestone Reference			
RM1	72.9		
RM2	72.9		
RM3		72.9	
RM7			72.9

(RA4) Rehabilitation Area 4

Post-mining land uses (PMLU)							
Rehabilitation area	RA4						
Relevant activities	Infrastructure areas not subject to landholder agreement						
Total rehabilitation area size (ha)	119.0						
Commencement of first milestone: RM1	10/12/2036						
PMLU	Grazing						
Date area is available	**10/12/2036**	**10/12/2038**	**10/12/2040**	**10/12/2042**	**10/12/2044**	**10/12/2046**	**10/12/2048**
Cumulative area available (ha)	**15.1**	**16.1**	**119.0**	**16.1**	**119.0**	**119.0**	**119.0**
Milestone completed by	**10/12/2038**	**10/12/2040**	**10/12/2042**	**10/12/2044**	**10/12/2046**	**10/12/2048**	**10/12/2050**
Milestone Reference							
RM1	15.01	16.1	119.0				
RM2	15.01	16.1	119.0				
RM3	15.01	16.1	119.0				
RM4	5.3	16.1	119.0				
RM5	5.3	16.1	119.0	119.0			
RM6			15.1	16.1	119.0	119.0	
RM7					5.3	16.1	119.0

(RA5) Rehabilitation Area 5

Post-mining land uses (PMLU)			
Rehabilitation area	RA5		
Relevant activities	Existing Rehabilitation		
Total rehabilitation area size (ha)	89.9		
Commencement of first milestone: RM3	10/12/2024		
PMLU	Grazing		
Date area is available	**10/12/2023**	**10/12/2028**	**10/12/2034**
Cumulative area available (ha)	**89.9**	**89.9**	**89.9**
Milestone completed by	**10/12/2028**	**10/12/2034**	**10/12/2036**
Milestone Reference			
RM3	89.9		
RM4	89.9		
RM5	89.9		
RM6	45.0	89.9	
RM7		45.0	89.9

(RA6) Rehabilitation Area 6

Post-mining land uses (PMLU)								
Rehabilitation area	RA6							
Relevant activities	Low wall							
Total rehabilitation area size (ha)	135.2							
Commencement of first milestone: RM3	10/12/2032							
PMLU	Woodland Habitat							
Date area is available	**10/12/2032**	**10/12/2034**	**10/12/2036**	**10/12/2038**	**10/12/2040**	**10/12/2042**	**10/12/2044**	**10/12/2048**
Cumulative area available (ha)	**46.0**	**92.0**	**135.2**	**135.2**	**92.0**	**46.0**	**135.2**	
Milestone completed by	**10/12/2034**	**10/12/2036**	**10/12/2038**	**10/12/2040**	**10/12/2042**	**10/12/2044**	**10/12/2048**	**10/12/2050**
Milestone Reference								
RM3	46.0	92.0	135.2					
RM4		46.0	92.0	135.2				
RM5		46.0	92.0	135.2				
RM6				46.0	92.0		135.2	
RM7						46.0	92.0	135.2

(RA7) Rehabilitation Area 7

Post-mining land uses (PMLU)							
Rehabilitation area	RA7						
Relevant activities	Isaac River Riparian Buffer						
Total rehabilitation area size (ha)	51.1						
Commencement of first milestone: RM3	10/12/2036						
PMLU	Riparian Woodland Habitat						
Date area is available	**10/12/2036**	**10/12/2038**	**10/12/2040**	**10/12/2042**	**10/12/2044**	**10/12/2046**	**10/12/2048**
Cumulative area available (ha)	**10.0**	**26.0**	**51.1**	**51.1**	**51.1**	**26.0**	**51.1**
Milestone completed by	**10/12/2038**	**10/12/2040**	**10/12/2042**	**10/12/2044**	**10/12/2046**	**10/12/2048**	**10/12/2050**
Milestone Reference							
RM3	10.0	26.0	51.1				
RM4	5.0	10.0	26.0	51.1			
RM5	5.0	10.0	26.0	51.1			
RM6			10.0	26.0	51.1		
RM7					10.0	26.0	51.1

Rehabilitation area milestones

Milestone reference	Rehabilitation milestone	Milestone criteria
RM1	Infrastructure decommissioning and removal	a) All Services, excluding retained infrastructure are disconnected and decommissioned. b) All buildings, excluding retained infrastructure are demolished and removed. c) All road materials (bitumen and gravel), excluding retained infrastructure, are removed. d) All pipelines, excluding retained infrastructure, are drained, and removed. e) All waste removed from site. f) Remnant coal material removed from the ROM and encapsulated with a minimum of 2m of non-acid forming material. g) All exploration drill holes have been rehabilitated in accordance with the eligibility criteria and standard conditions for exploration and mineral development projects – V2 (EHP, 2016).
RM2	Identification & remediation of contaminated land	a) Site investigation report, as required under the *Environmental Protection Act* 1994 (Qld) completed. b) Contaminated and hazardous material either remediated in-situ or removed/transported to an approved landfill for disposal and waste tracking information recorded and submitted. c) Validation testing confirms that contaminated and hazardous materials have been removed/transported to an approved landfill for disposal and waste tracking information recorded and submitted. d) Suitably Qualified Person (SQP)[6] documentation of completion of criteria RM2.b) and RM2.c) retained until achievement of RM7.
RM3	Landform Establishment	**All rehabilitation areas**

[6] ***Suitability qualified 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

		a) Final landform drainage installed to allow effective removal of surface water from the vegetated slopes as confirmed by an Appropriately qualified person (AQP)[7]. b) Seepage and surface runoff from rehabilitated overburden dump areas is directed to the mine affected water dam through appropriate permanent drainage system. c) Bulk earthworks to achieve required landform and slopes are complete. d) Erosion and sediment control systems are designed by an AQP, installed, and fit for purpose. e) Southern pit located in the final floodplain is backfilled and free draining. f) Back-filled pits assessed as geotechnically stable by an AQP (geotechnical engineer). **Cattle grazing (RA1, RA2, RA4, RA5)** g) Landform reshaped with a maximum 15% slope. h) Landform design is assessed by an AQP as being geotechnically stable with a factor of safety ≥1.5. i) Retained dams are safe for stock access and have vegetated banks. **Woodland Habitat (RA6)** j) Landforms reshaped with a maximum 25% slope. k) Areas >15% have been assessed by an AQP as being stable long term, with rock mulch applied as required. l) Landform design is assessed by an AQP as being geotechnically stable with a factor of safety ≥1.4 unless an alternative is justified by an AQP. m) Rock placed a minimum thickness of 0.5m on >20% slopes. **Riparian Woodland Habitat (RA7)** n) Landform reshaped with a maximum 15% slope. o) Landform design is assessed by an AQP as being geotechnically stable with a factor of safety ≥1.5.

[7] ***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 relating to the subject matter using the relevant protocols, standards, methods or literature.*

		Floodplain (RA7) p) The relevant extent of the flood protection levee is incorporated into the final landform for the southern backfilled pit area as designed and confirmed by an AQP. q) Rehabilitated floodplain surfaces maintained with adequate vegetation cover and rock amour to minimise the scouring risk as confirmed by an AQP.
RM4	Surface preparation.	a) Topsoil to meet all following suitability targets: i. pH (1:5) 6.0–9.0 (measured within the root zone at 60 cm), ii. Electrical Conductivity - EC (1:5) <1,100 µS/cm (measured within the root zone at 60 cm), iii. Exchangeable sodium percentage (ESP) ≤6% (measured at 1–10 cm depth). b) An assessment of soil and capping material has been completed by an AQP to confirm soil and capping material's suitability to meet **RM4.a)**. c) Application of ameliorants such as fertiliser, gypsum/or organic matter determined by an AQP based on the assessment required by **RM4.b).** d) Topsoil placed at minimum depth of 200mm for RAs 1 – 4 and 100mm for RA6 and RA7. e) Deep ripping of compacted areas as per the requirements of the soil and capping material assessment and determined by an AQP. f) Complete ripping of all rehabilitated areas, including along the contour slopes.
RM5	Revegetation	**Cattle Grazing (RA1, RA2, RA4, RA5)** a) Complete seeding in accordance with target species of 3P (perennial, palatable and productive) using a selection of species outlined in **Appendix 1: Pasture species** at a minimum total overall seeding rate of 10-15kg/ha**.** b) The seed application required by RM5. 5. a) must include minimum of 4 palatable perennial pasture species and include up to 50% native species. **Woodland Habitat (RA6)**

		c) Completed seeding using a selection of species outlined in **Appendix 2**: **Woodland species** as available at the time of purchase. d) Completed seeding as per recommended sowing rates for individual species where possible and total recommended seeding rates for dominant tree species (5kg/ha), mid-storey species (5kg/ha), and groundcover species (5kg/ha). **Riparian Woodland Habitat (RA7)** e) Completed seeding using a selection of species outlined in **Appendix 3: Riparian vegetation species** as available at the time of purchase. f) Completed seeding as per recommended sowing rates for individual species where possible and total recommended seeding rates for upper bank (5kg/ha), mid bank (5kg/ha), and lower bank (5kg/ha).
RM6	Achievement of surface preparation	a) Final landform for grazing PMLU has achieved a geotechnically stable condition with minimum ≥ 1.5 factor of safety and slopes ≤15%. b) Final landform for RA6 woodland habitat PMLU has slopes ≤25 % and geotechnically stable condition with minimum ≥ 1.4 factor of safety. c) Species used in revegetation remain present and show evidence of natural recruitment. d) Minimum 70% established and persistent vegetative groundcover. e) Presence of rocks, logs or other effective erosion control cover is limited to 30% of total vegetative groundcover. f) Weed presence is less than 10% of total vegetative groundcover confirmed by an AQP in annual monitoring. g) No evidence of erosion classified as 'moderate' or 'severe' as defined by **Appendix 4: Erosion classification framework**. h) Average erosion rate of <5 t/ha/y. i) Maximum erosion rate of <10 t/ha/y.

		j) Surface water runoff is non-polluting to receiving waters and complies with **Appendix 6: Surface water quality limits.** k) Soil testing indicates all following parameters are met: i. pH (1:5) 6.0–9.0 (measured within the root zone at 60 cm), ii. Electrical Conductivity - EC (1:5) <1,100 µS/cm (measured within the root zone at 60 cm), iii. Exchangeable sodium percentage (ESP) ≤6% (measured at 1–10 cm depth). l) Infrastructure to be transitioned to a future landholder will be deemed fit for purpose (verified by an AQP) and accepted, by signed agreement, with the future landholder. m) Retained dams (RA3) are drained and desilted and meet water quality criteria stipulated in **Appendix 6: Surface Water Quality Limits**.
RM7	Achievement of PMLU to a stable condition.	**Contaminated Land** a) For any lot/plan listed on the Environmental Management Register (EMR)/Contaminated Land Register (CLR) within the mining lease area, a Contaminated Land Investigation Document (CLID) completed in accordance with the *Environmental Protection Act 1994*, including: i. Site Suitability Statement confirming the suitability of the property for the PMLUs; ii. Contaminated Land Auditor Certification; iii. Site Investigation Report and, where required, a Validation Report and/or a draft Site Management Plan. b) For any lot/plan listed on the Environmental Management Register within the mining lease area, removal of land from EMR. c) For any lot/plan listed on the Contaminated Land Register within the mining lease area, removal of land from CLR where possible. d) For any lot/plan not listed on the EMR/CLR within the mining lease area, a contaminated land assessment completed by a SQP demonstrates that no contamination unsuitable for the post-mining land use remains or is occurring. e) For any sites that cannot be removed from EMR/CLR – a site management plan is provided with relevant area identified via mapping. **Surface and Ground water**

f) Surface water quality results monitored monthly during flow at, but not limited to, downstream locations specified in the **Appendix 5: Receiving Water Upstream Background Sites and Downstream Monitoring Points** must demonstrate compliance with the limits in **Appendix 6: Surface Water Quality Limits**, for a minimum of 5 consecutive years.

g) If the surface water quality exceeds limits stipulated in **Appendix 6**: **Surface Water Quality Limits** , the applicable upstream site must be compared to the downstream site result; and quality result measured at a downstream site must be equal to or less than the quality result measured at the applicable upstream site.

h) If the surface water quality at the downstream site exceeds limits stipulated in **Appendix 6: Surface Water Quality Limits** and exceeds the quality results measured at the applicable upstream site, then EA holder must comply with actions in accordance with condition **PRCP8** and **PRCP9**.

i) The EA holder will be non-compliant with **RM7. f)**, if actions under **PRCP9.ii** condition are triggered more than 3 times over 5 consecutive years.

j) For a minimum of five consecutive years groundwater quality must be monitored quarterly at, but not limited to, compliance bores specified in **Appendix 7: Groundwater Quality Monitoring Bores**, for all quality characteristics listed in **Appendix 8: Groundwater Quality Limits**.

k) Groundwater quality results must not exceed the limits in **Appendix 8: Groundwater Quality Limits**, for 3 consecutive results.

l) Groundwater level is monitored quarterly, and all results must not exceed the Level thresholds outlined in **Appendix 9: Groundwater Level Thresholds**, for a minimum of 10 consecutive years.

m) Sampling undertaken of water storages (RA3) every six months for a minimum of 5 years.

n) Water storages (RA3) contain water of a suitable quality for native wildlife and/or livestock ingestion and achieve water quality criteria listed in **Appendix 6: Surface Water Quality Limits**, for a minimum of 5 years.

Soil quality and Erosion

o) Soil testing indicates all following parameters are met:
    i. pH (1:5) 6.0–9.0 (measured within the root zone at 60 cm),
    ii. Electrical Conductivity - EC (1:5) <1,100 µS/cm (measured within the root zone at 60 cm),

		iii. Exchangeable sodium percentage (ESP) ≤6% (measured at 1–10 cm depth). p) No evidence of erosion classified as 'moderate' or 'severe' as defined by **Appendix 4: Erosion classification framework**. **Grazing PMLU** q) Rehabilitated areas with grazing PMLU demonstrate achievement of the following criteria: i. Preferred pasture species (3P grasses) diversity ≥ 4. ii. Vegetative groundcover ≥70%. iii. Presence of rocks, logs or other effective erosion control cover is limited to 30% of total vegetative groundcover. iv. Achievement of land class 3 for RA1, RA2, RA4, RA5 as per Guidelines for Agricultural Land Evaluation in Queensland. v. Weed presence is assessed by an AQP as appropriately managed and comprise less than 10% of total vegetative groundcover. vi. Certification from an AQP that rehabilitation is resilient to fire and grazing pressures. **Woodland habitat PMLU's** r) A BioCondition assessment at RA6 and RA7 is completed by an AQP using the methodology outlined in the latest version of the Queensland Herbarium's BioCondition Assessment Manual. s) The BioCondition assessment required by **RM7.r)** at RA6 and RA7 demonstrates achievement of the PRCP Benchmark for each assessable attribute for the relevant regional ecosystem as per **Appendix 10**: **Representative RE benchmark criteria for Woodland Habitat Rehabilitation at RA6** and **Appendix 11**: **Representative RE benchmark criteria for Riparian Woodland Habitat Rehabilitation at RA7** respectively.

[1] ***Suitability qualified 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

[2]***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 relating to the subject matter using the relevant protocols, standards, methods or literature.*

Section D – Non-use management areas

(IA1) Improvement area 1

Non-use management area (NUMA)			
Improvement area	IA1		
Relevant activities	Final void, end wall and highwall.		
Total size (ha)	75		
Commencement of first milestone: MM1	30/06/2039		
NUMA	NUMA		
Date area is available	**30/06/2039**	**10/12/2039**	**10/12/2040**
Cumulative area available (ha)	**75**	**75**	**75**
Milestone completed by	**10/12/2039**	**10/12/2040**	**10/12/2041**
Milestone Reference			
MM1	75		
MM2		75	
MM3			75

Improvement area milestones

Milestone reference	Management milestone	Milestone criteria
MM1	Wall treatments	a) Following slope geometry achieved for highwall and end wall (where not backfilled): i. Competent (unweathered) rock slopes are 215% (65°)with 35 m high batters; and 10m wide bench at the base of each batter, ii. Non- competent (weathered) rock slopes are 100% (45°) and 10 m wide bench at the base of weathering, iii. The uppermost layer of soil and extremely weathered rock are battered back to 27° (50%) and protected from surface runoff to minimise gullying, iv. Low-wall internal batters are dozed down to an angle of 23°; and v. The final landform including high-walls and end-walls are geotechnically stable and achieved a factor of safety 1.5.
MM2	Achievement of surface requirements/access controls	a) Safety bund setback distance is in accordance with a calculated geotechnical FoS of ≥1.5 and achieves a minimum distance of 15 m. b) The safety bund is constructed around the perimeter of the final void, in accordance with engineering requirements including: i. Constructed from non-weathered dumped rockfill; ii. a minimum 2m in height; iii. a minimum of 4 m base width; and iv. 1 in 3 batters. c) The Isaac River side of the residual levee landform is rock armoured to ensure long-term erosion stability. d) The boundary of residual void area is fenced on the outside of the abandonment safety bund to relevant specifications (four strand barbed stock fence). e) Safety signage (design in accordance with Australian standard) is erected at 100m intervals along the fence. f) No public access to highwall or end wall areas.

MM3	Achievement of sufficient improvement	a) The final void is geotechnically stable including: i. The highwall and end wall (where not backfilled) have: • 215% (65°) void highwall and end wall in competent (unweathered) rock; • 100% (45°) highwall and end wall in less competent (weathered) rock; ii. Drainage measures and structures have been appropriately established and are directing overland flow away from the highwall edge; and iii. Erosion and sediment control measures have been installed and are operating as per design. b) The residual void is: i. A single residual void area of 75ha; ii. A maximum depth of 170m; iii. Located outside of the Isaac River floodplain, as defined under the *Environmental protection Act* 1994 (EP Act); iv. Non-polluting supported by evidence based on up-to-date groundwater modelling which demonstrates that the final void lake will not overflow nor potentially contaminate any other surface water or ground water bodies. c) The safety bund and fencing are present and functional. d) Certification from an AQP that i. water level and quality in the residual void will not cause environmental harm to the surrounding environment, as demonstrated by long-term void and groundwater level and quality monitoring. ii. the void is a groundwater sink to the receiving groundwater environment. iii. the residual void will not present an unacceptable risk of environmental harm outside of the relevant tenure boundary. e) Risk from the void is as low as reasonably practical (ALARP) in accordance with the latest version of AS/NZS ISO 31000:2009 Risk Management and certified by an AQP.

Appendix

Appendix 1 – Pasture species

Common Name	Scientific name
King Bluegrass	*Dichanthium queenslandicum*
Black Speargrass	*Heteropogon contortus*
Sabi Grass	*Urochloa mosambicensis*
Rhodes Grass	*Chloris gayana*
Kangaroo grass	*Themeda triandra*
Gayndah Buffel grass	*Cenchrus ciliaris*
Butterfly Pea	*Clitoria ternatea*
Round-leafed Cassia	*Chamaecrista rotundifolia*
Red Natal Grass	*Melenis repens*
Sugar-drip Sorghum	*Sorghum sp.*
Japanese Millet	*Echnochloa esculenta*
River She-Oak	*Casuarina cunninghamiana*
Narrow-leaved ironbark	*Eucalyptus crebra*

Appendix 2 – Woodland habitat vegetation species representative of RE11.10.1 for Low-wall (RA6)

BVG	Upper-Storey Tree Species	Mid and Lower Storey Tree and Shrub Species	Groundcover Species
10a	*Corymbia citriodora* *Eucalyptus crebra* *Eucalyptus fibrosa* *Corymbia hendersonii* *Corymbia clarksoniana* *Angophora leiocarpa* *thozetiana* *Eucalyptus cambageana* *Eucalyptus crebra* *Acacia harpophylla* *Acacia cambagei* *Casuarina cristata*	*Alphitonia excelsa* *Acacia leiocalyx* *Acacia cretata* *Acacia longispicata* *Petalostigma pubescens* *Breynia oblongifolia* *Capparis canescens*	*Cymbopogon refractus* *Themeda triandra* *Eremochloa bimaculate* *Arundinella nepalensis* *Panicum effusum* *Desmodium varians,* *Brunoniella australis* *Cyanthillium cinereum* *Chrysocephalum apiculatum* *Eustrephus latifolius* *Dianella revoluta* *Phyllanthus virgatus* *Evolvulus alsinoides* *Lomandra confertifolia subsp. Pallida* *Lomandra multiflora subsp. Multiflora* *Glossocardia bidens.*

Appendix 3 – Riparian vegetation species representative of RE11.3.25 for Isaac River Buffer (RA7)

BVG	Upper-Story Tree Species	Groundcover Species
16a	*Eucalyptus camaldulensis* *Eucalyptus tereticornis* *Eucalyptus coolabah* *Melaluca sp.* *Corymbia tessallaris* *Angophora spp.* *Casuarina cunninghamiana*	Pasture Species (As per Appendix 1 Isaac Downs Schedule)

Appendix 4 – 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 <0.3m deep	15-30 rills/transect* and <0.3m deep	>30 rills/transect* and/or any >0.3m 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.

Appendix 5: Receiving Water Upstream Background Sites and Downstream Monitoring Points

Monitoring Point	Receiving water description	Latitude (GDA94, decimal degrees)	Longitude (GDA94, decimal degrees)
Upstream			
IR1	Isaac River upstream	-22.0497	148.1303
IR1A	Isaac River upstream – 850m upstream of Five Mile Gully confluence	-22.0425	148.1603
FG1	Five Mile Gully upstream	-22.0234	148.1731
SG1	Southern Gully upstream	-22.0638	148.2045
Downstream			
IR2	Isaac River Site 2	-22.0407	148.1685
IR4	Isaac River Site 4	-22.0732	148.1931
IR5	Isaac River Downstream	-22.0763	148.2045
FG2	Five Mile Gully downstream	-22.036	148.165
SG2	Southern Gully downstream	-22.0719	148.2054

Figure 1: Receiving water monitoring locations

Appendix 6: Surface Water Quality Limits

Quality characteristic	Unit	Limit	
pH	pH Units	6.5-8.5	Upper Isaac River WQO
Electrical Conductivity	µS/cm	720	Upper Isaac River WQO – baseflow
Sulfate	mg/L	25	Upper Isaac River WQO
Turbidity	NTU	50	Upper Isaac River WQO
Aluminium (Dissolved)	µg/L	55	ANZG 2018
Arsenic (Dissolved)	µg/L	13	ANZG 2018
Molybdenum (Dissolved)	µg/L	34	ANZG 2018
Selenium (Dissolved)	µg/L	5	ANZG 2018
Total recoverable hydrocarbons (C6-C9)	µg/L	20	
Total recoverable hydrocarbons (C10-C36)	µg/L	100	
Major ions Calcium, chloride, potassium, magnesium, sodium, bicarbonate, carbonate	mg/L	For interpretation purposes only	

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.
- DEHP (2011) Upper Isaac River Sub Basin WQO – surface water
- ANZG (2018) Aquatic ecosystem protection for moderately disturbed system (95% protection)

Appendix7: Groundwater Quality Monitoring Bores

Monitoring Bore	Hydrogeological Unit	Compliance assessment required		Location	
		Water quality (Y/N)	Water level (Y/N)	Latitude (decimal degree, GDA94)	Longitude (decimal degree, GDA94)
MBID01	Alluvium	Y	Y	-22.041036	148.169121
MBID03	Alluvium	Y	Y	-22.064949	148.182546
MBID04	Leichhardt Seam/ Vermont Seam	Y	Y	-22.064877	148.182507
MBID07	Weathered Triassic sediments	Y	Y	-22.072349	148.191029
MBID08	Alluvium/weathered Triassic sediments	Y	Y	-22.071070	148.193960
MBID10	Leichhardt Seam/ Vermont Seam	Y	Y	-22.062050	148.181090
MBID17	Alluvium	Y	Y	-22.038321	148.160815
MBID18	Leichhardt Seam	Y	Y	-22.045066	148.195171
MBID19A	Alluvium	Y	Y	-22.046917	148.170294
MBID21A	Alluvium	Y	Y	-22.058275	148.178585
MBID22	Weathered Triassic sediments	Y	Y	-22.073720	148.191274
MBID23	Alluvium	Y	Y	-22.064242	148.180418
MBID25A	Alluvium	Y	Y	-22.073187	148.201164
MBID027	Alluvium	N	Y	-22.081880	148.184610
MBID28	Alluvium	Y	Y	-22.073711	148.191312
584S	Leichhardt Seam/ Vermont Seam	N	Y	-22.090366	148.189135
584D	Leichhardt Seam/ Vermont Seam	N	Y	-22.090366	148.189135
594	Leichhardt Seam/ Vermont Seam	N	Y	-22.105165	148.188687
593	Leichhardt Seam/ Vermont Seam	N	Y	-22.105156	148.188687
RN162818	Weathered Triassic sediments	N	Y	-22.073802	148.191197

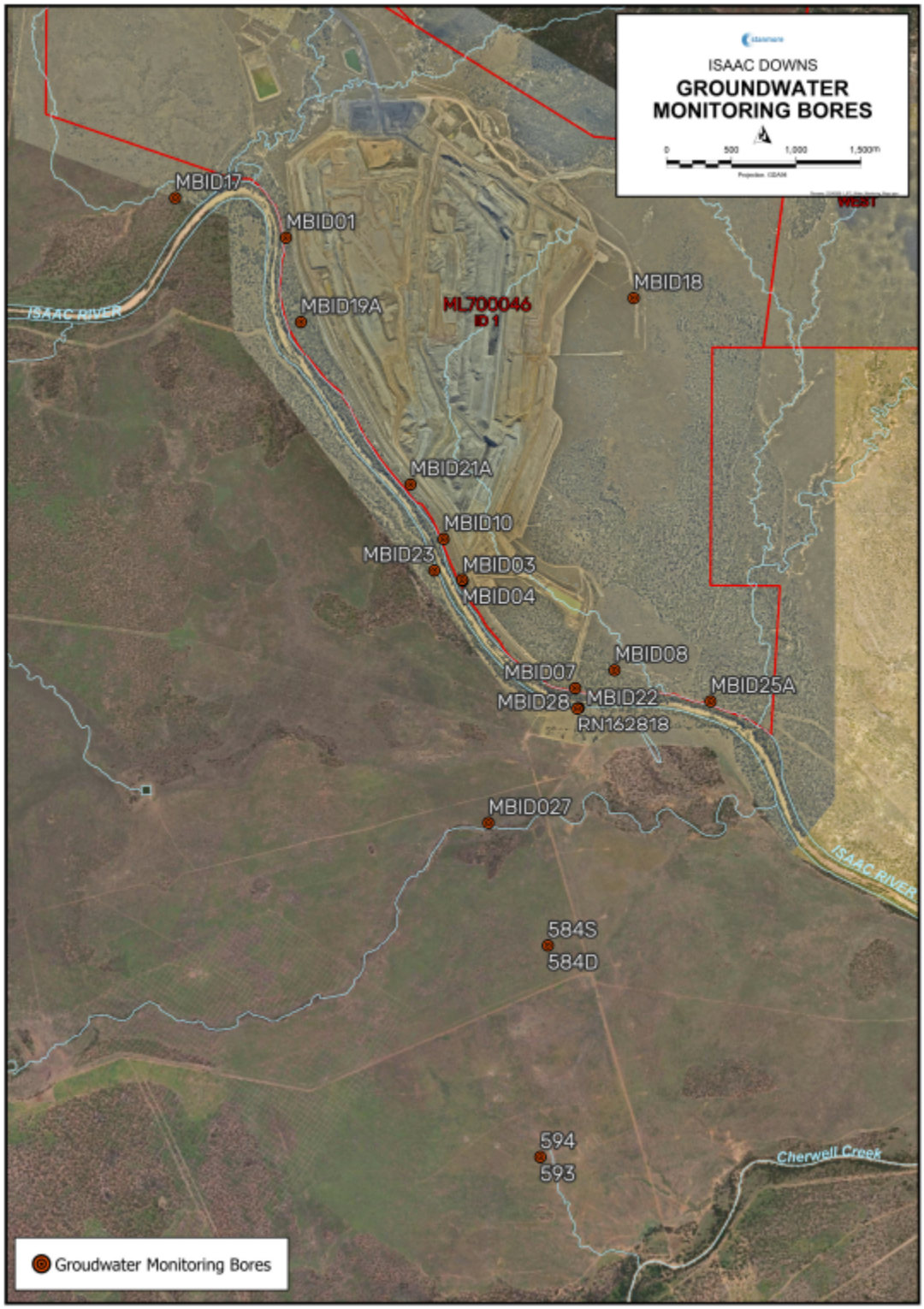


Figure 2: Groundwater monitoring bores

Appendix 8: Groundwater Quality Limits

Quality characteristic	unit	MBID01	MBID03	MBID04	MBID07	MBID08	MBID10	MBID17	MBID18	MBID19	MBID21	MBID22	MBID23	MBID25	MBID28
pH	pH Units	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5
Electrical Conductivity	µS/cm	6,635	9,960	23,760	3,883	5,970*	5,970*	9,093	30,860	5,630	5,715	16,650	5,625	7,730	2,773
Sulfate	mg/L	91	172	82	291	250*	250*	187	3	42	96	1,057	49	580	52
Aluminium (Dissolved)	µg/L	55	55	55	55	55	55	55	55	55	55	55	55	55	55
Arsenic (Dissolved)	µg/L	13	13	13	13	13	13	13	13	13	13	13	13	13	13
Molybdenum (Dissolved)	µg/L	34	34	34	34	34	34	34	34	34	34	34	34	34	34
Selenium (Dissolved)	µg/L	10	10	10	10	10	10	10	50	10	10	10	10	10	10
Major ions	mg/L	Interpretation													

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.
- *****Current WQO values to be updated in accordance with PRCP schedule condition PRCP14.

Appendix 9: Groundwater Level Thresholds

Monitoring points	Groundwater Level Threshold (maximum drawdown [metre])
MBID01	2.0
MBID03	2.0
MBID04	42.0
MBID17	2.0
MBID18	46.0
MBID19	2.0
MBID21	3.0
MBID22	5.0
MBID23	1.0
MBID25	3.0
MBID27	2.0
MBID28	5.0
584S	24.0
584D	23.0
594	10.0
593	7.0
RN162817	5.0
RN162818	5.0

Appendix 10: Representative RE benchmark criteria for Woodland Habitat Rehabilitation at RA6 (Low-wall Area)

Regional Ecosystem	11.10.1 Benchmark	PRCP Benchmark (11.10.1 Revised)
Short description	*Corymbia citriodora* +/-*Eucalyptus crebra* +/-*Corymbia clarksoniana* woodland	*Corymbia citriodora* +/-*Eucalyptus crebra* +/-*Corymbia clarksoniana* woodland
Recruitment	100%	100%
Non-native plant cover (other than pasture grass)	0	≤10%
Non-native plant cover (including pasture grass)	N/A	<40%[1.2]
Native tree species richness	4	≥ 3(inc. *Corymbia citriodora*)
Native shrub species richness	4	≥ 3
Native grass species richness	9	≥ 2
Native forb other species richness	17	≥ 2
Tree canopy cover	30%	≥ 15%
Shrub canopy cover	13%	N/A[4]
Native perennial grass	16%	≥ 10%
Litter grid cover	50%	≥ 10%

1. Inclusion of pasture grass to account for dominate species during maturing of rehabilitation.
2. Note that native ground cover will be initially seeded as per Table 1 above.
3. Note that ground cover on slopes > 20% will as a minimum have a rock mulch cover which is likely to limit vegetative percentage cover.
4. No BioCondition benchmark scores for mid story (shrubs) species are allocated. This is consistent with that stated on the Queensland Government Website which states that shrubs may form a conspicuous layer. This is also consistent with the departments BVG 10a description which states, 'that a shrub layer is very sparse'.

Appendix 11: Representative RE benchmark criteria for Riparian Woodland Habitat Rehabilitation at RA7 (Isaac River Riparian Buffer)

Regional Ecosystem	11.3.25 Benchmark	PRCP Benchmark (11.3.25 Revised)
Short description	*Eucalyptus tereticornis* +/- *E. camaldulensis* woodland fringing drainage lines	Rehabilitated *Eucalyptus tereticornis* +/- *E. camaldulensis* woodland fringing drainage lines woodland
Recruitment	100%	100%
Non-native plant cover (not including pasture grass	0	≤ 10%
Native tree species richness	4	≥ 3
Native shrub species richness	4	≥ 2
Native grass species richness	8	N/A
Native forb other species richness	13	N/A
Tree canopy cover	34%	≥ 15%
Shrub canopy cover	NA	NA
Native perennial grass	35%	N/A
Litter grid cover	21%	≥ 10%

END OF PRCP SCHEDULE