APPENDIX 5 – PROGRESSIVE REHABILITATION AND CLOSURE PLAN SCHEDULE

NEW LENTON COAL PTY LTD

NEW LENTON COAL PROJECT

PRCP schedule

Environmental Protection Act 1994

PRCP schedule PRCP_EPML00475513_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_EPML00475513_V1

PRCP schedule holder(s)

Name(s)	Registered address
New Lenton Coal Pty Ltd	Level 16/175 Eagle Street BRISBANE CITY QLD 4000
MPC Lenton Pty Ltd	C/- ClarkeKann Lawyers Level 7/300 Queen Street BRISBANE CITY QLD 4000

Location details

Location(s)
Mining Lease (ML) ML70337, ML700053, ML700054

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.

Alison O'Brien	27/11/2023
Signature	Date

Alison O'Brien
Department of Environment and Science
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 areas
- Section E: Attachments

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

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 comply with each milestone criteria stated in the schedule.

PRCP2 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.

PRCP3 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.

PRCP4 Where an area has achieved the final rehabilitation milestone, it must be maintained and continue to comply with the rehabilitation 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.

PRCP5 Disturbance due to exploration activities in areas not authorised to be mined must be rehabilitated in accordance with the provisions detailed in the Eligibility criteria and standard conditions for exploration and mineral development projects or its successor, with the exception that land must be rehabilitated to a stable condition that achieves the relevant PMLU as indicated by Figure 1 Final Site Design.

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 for a minimum of five years and provide such records to the administering authority on request. Relevant matters for this condition include, but are not necessarily limited 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. Designs, drawings, specifications or any similar documents required under the PRCP schedule

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

PRCP8 Prior to the commencement of mining activities*, the holder of this PRCP Schedule must submit in writing to the administering authority, the year of commencement, as shown in the PRCP schedule as 20XX.

* ***Mining activity/ies*** *means the activities:*

(a) authorised as per the definition in section 110 of the Environmental Protection Act 1994; and

(b) all environmentally relevant activities authorised under this environmental authority"

END OF CONDITIONS

Section B - Final site design and reference maps

Figure 1 – Final Site Design

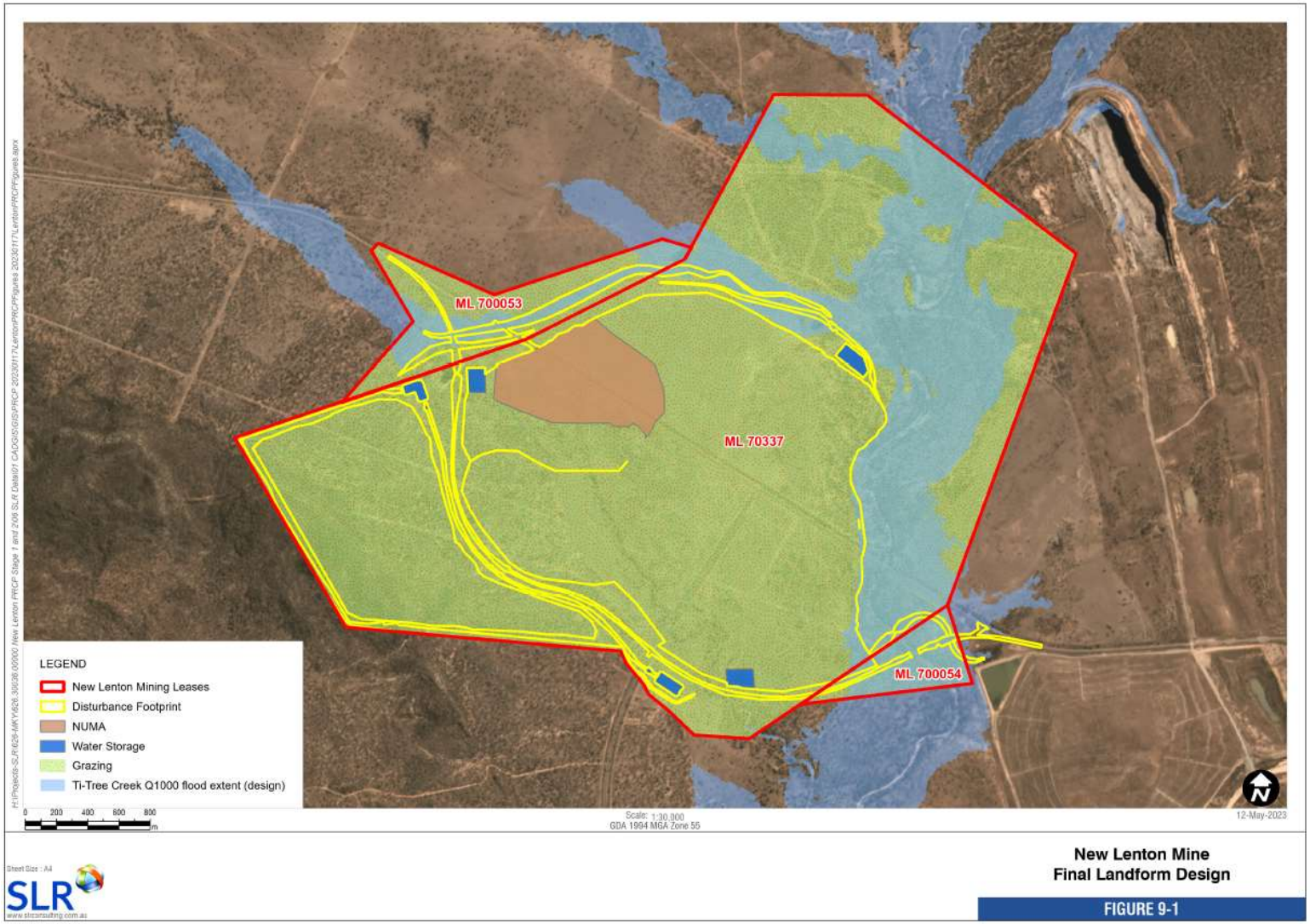
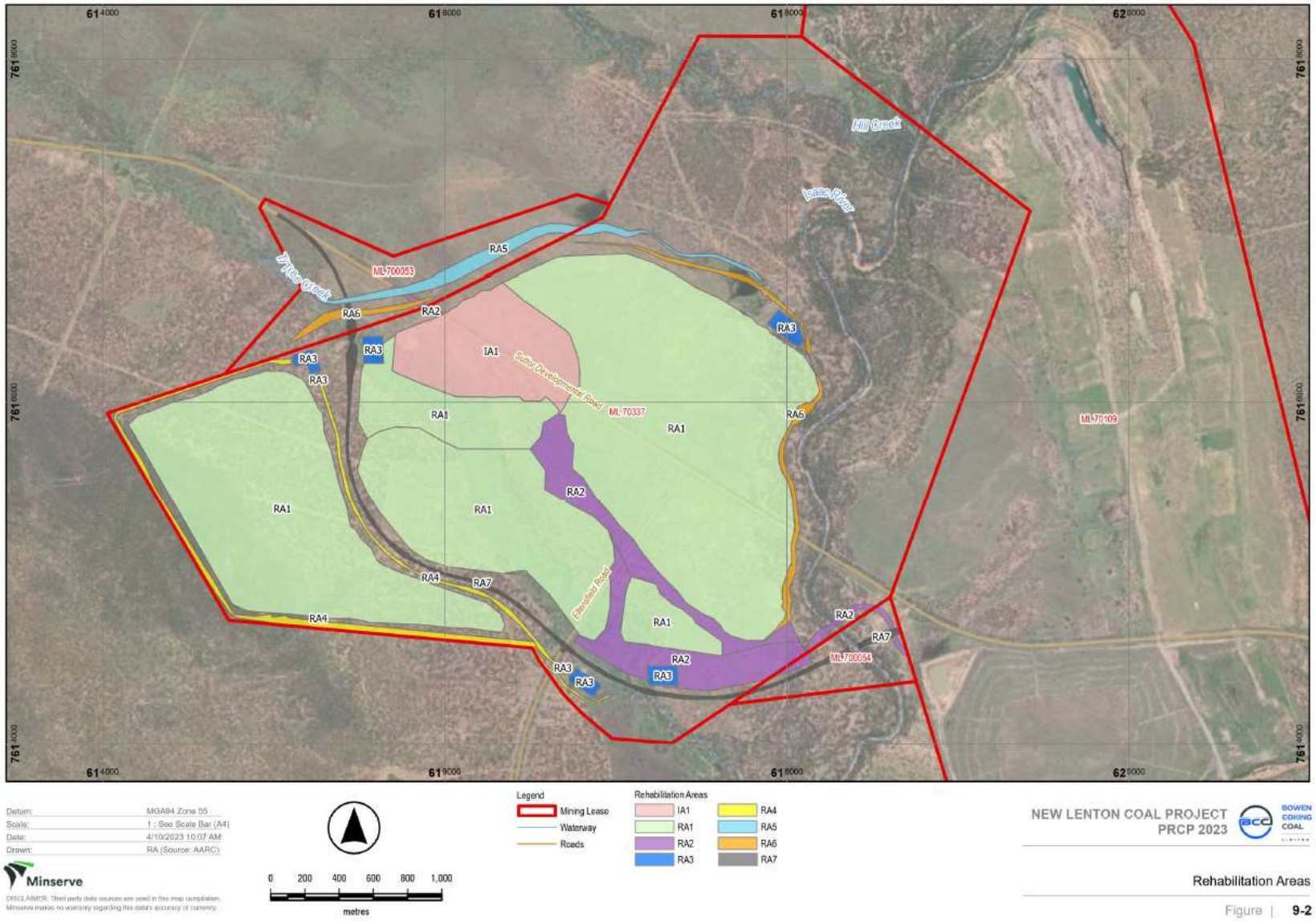


Figure 2 – Reference Map



Section C – Post mining land uses

(RA1) Rehabilitation area 1

Post-mining land uses (PMLU)										
Rehabilitation area	RA1									
Relevant activities	Overburden									
Total rehabilitation area size (ha)	531									
Commencement of first milestone: RM3	Year 1									
PMLU	Grazing									
Date area is available	10/12/20XX +1	10/12/20XX +1	10/12/20XX +1	10/12/20XX +1	10/12/20XX +1	10/12/20XX +1	10/12/20XX +1	10/12/20XX +1	10/12/20XX +1	10/12/20XX +1
Cumulative area available (ha)	20	60	80	110	140	180	220	220	220	260
Milestone completed by	10/12/20XX +2	10/12/20XX +3	10/12/20XX +4	10/12/20XX +5	10/12/20XX +6	10/12/20XX +7	10/12/20XX +8	10/12/20XX +9	10/12/20XX +10	10/12/20XX +11
Milestone Reference	**Cumulative area achieved (ha)**									
RM3	20	60	80	100	120	140	160	180	200	220
RM4		20	60	80	100	120	140	160	180	200
RM5		20	60	80	100	120	140	160	180	200
RM6					60	60	80	100	120	140
RM8										

(RA1) Rehabilitation area 1 Continued

Post-mining land uses (PMLU)										
Rehabilitation area	RA1									
Relevant activities	Overburden									
Total rehabilitation area size (ha)	531									
Commencement of first milestone: RM3	Year 1									
PMLU	Grazing									
Date area is available	10/12/20XX +11	10/12/20XX +12	10/12/20XX +13	10/12/20XX +14	10/12/20XX +15	10/12/20XX +16	10/12/20XX +17	10/12/20XX +18		
Cumulative area available (ha)	330	350	380	400	420	445	500	531		
Milestone completed by	10/12/20XX +12	10/12/20XX +13	10/12/20XX +14	10/12/20XX +15	10/12/20XX +16	10/12/20XX +17	10/12/20XX +18	10/12/20XX +19	10/12/20XX +20	10/12/20XX +21
Milestone Reference	**Cumulative area achieved (ha)**									
RM3	240	260	280	300	320	340	360	380	400	420
RM4	220	240	260	280	300	320	340	360	380	400
RM5	220	240	260	280	300	320	340	360	380	400
RM6	160	180	200	220	240	260	280	300	320	340
RM8										

(RA1) Rehabilitation area 1 Continued

Post-mining land uses (PMLU)										
Rehabilitation area	RA1									
Relevant activities	Overburden									
Total rehabilitation area size (ha)	531									
Commencement of first milestone: RM3	Year 1									
PMLU	Grazing									
Date area is available										
Cumulative area available (ha)										
Milestone completed by	10/12/20XX +22	10/12/20XX +23	10/12/20XX +24	10/12/20XX +25	10/12/20XX +26	10/12/20XX +27	10/12/20XX +28	10/12/20XX +29	10/12/20XX +30	10/12/20XX +33
Milestone Reference	**Cumulative area achieved (ha)**									
RM3	440	460	480	500	531					
RM4	420	440	460	480	500	531				
RM5	420	440	460	480	500	531				
RM6	360	380	400	420	440	460	480	500	531	
RM8										531

(RA2) Rehabilitation area 2

Post-mining land uses (PMLU)										
Rehabilitation area	RA2									
Relevant activities	Infrastructure, pipelines, roads									
Total rehabilitation area size (ha)	53.8									
Commencement of first milestone: RM1	Year 20									
PMLU	Grazing / Infrastructure retention									
Date area is available	10/12/20XX +19									
Cumulative area available (ha)	53.8									
Milestone completed by	10/12/20XX +20	10/12/20XX +21	10/12/20XX +22	10/12/20XX +23	10/12/20XX +27	10/12/20XX +32				
Milestone Reference	**Cumulative area achieved (ha)**									
RM1	53.8									
RM2		53.8								
RM3			53.8							
RM4				53.8						
RM5				53.8						
RM6					53.8					
RM8						53.8				

(RA3) Rehabilitation area 3

Post-mining land uses (PMLU)										
Rehabilitation area	RA3									
Relevant activities	Retained water storages: Sediment / Supply Dams									
Total rehabilitation area size (ha)	8.9									
Commencement of first milestone: RM7	Year 27									
PMLU	Water storage for stock watering									
Date area is available	10/12/20XX +27									
Cumulative area available (ha)	8.9									
Milestone completed by	10/12/20XX +27	10/12/20XX +32								
Milestone Reference	**Cumulative area achieved (ha)**									
RM7	8.9									
RM11		8.9								

(RA4) Rehabilitation area 4

Post-mining land uses (PMLU)										
Rehabilitation area	RA4									
Relevant activities	Sediment Drain									
Total rehabilitation area size (ha)	17.1									
Commencement of first milestone: RM3	Year 20									
PMLU	Grazing									
Date area is available	10/12/20XX +20									
Cumulative area available (ha)	17.1									
Milestone completed by	10/12/20XX +21	10/12/20XX +22	10/12/20XX +27	10/12/20XX +32						
Milestone Reference	**Cumulative area achieved (ha)**									
RM3	17.1									
RM4		17.1								
RM5		17.1								
RM6			17.1							
RM8				17.1						

(RA5) Rehabilitation area 5

Post-mining land uses (PMLU)										
Rehabilitation area	RA5									
Relevant activities	Diversion									
Total rehabilitation area size (ha)	12.3									
Commencement of first milestone: RM9	Year 2									
PMLU	Diversion									
Date area is available	10/12/20XX +2									
Cumulative area available (ha)	12.3									
Milestone completed by	10/12/20XX +10	10/12/20XX +15								
Milestone Reference	**Cumulative area achieved (ha)**									
RM9	12.3									
RM10		12.3								

(RA6) Rehabilitation area 6

Post-mining land uses (PMLU)										
Rehabilitation area	RA6									
Relevant activities	Levees									
Total rehabilitation area size (ha)	12.1									
Commencement of first milestone: RM3	Year 18									
PMLU	Grazing									
Date area is available	10/12/20XX +18									
Cumulative area available (ha)	12.1									
Milestone completed by	10/12/20XX +19	10/12/20XX +21	10/12/20XX +24	10/12/20XX +29						
Milestone Reference	**Cumulative area achieved (ha)**									
RM3	12.1									
RM4		12.1								
RM5		12.1								
RM6			12.1							
RM8				12.1						

(RA7) Rehabilitation area 7

Post-mining land uses (PMLU)										
Rehabilitation area	RA7									
Relevant activities	Suttor Developmental Road Realignment									
Total rehabilitation area size (ha)	11.7									
Commencement of first milestone: RM12	Year 5									
PMLU	Road Reserve									
Date area is available	10/12/20XX +5									
Cumulative area available (ha)	11.7									
Milestone completed by	10/12/20XX +8									
Milestone Reference	**Cumulative area achieved (ha)**									
RM12	11.7									

Rehabilitation area milestones

Milestone reference	Rehabilitation milestone	Milestone criteria
RM1	Infrastructure decommissioning and removal	a. All infrastructure, excluding retained infrastructure, has been decommissioned and removed from site; b. All roads, where not being retained, have been removed; c. Any infrastructure to be retained is agreed to by the landholder or owner as evidenced by a signed landholder agreement; d. All demolition and hazardous waste has been treated and disposed of; e. All services have been disconnected and terminated; and f. Machinery and equipment not required for rehabilitation have been removed.
RM2	Remediation of Contaminated Land	a. Preliminary contaminated land site investigation completed by a suitably qualified person (SQP)[1]. b. Detailed site investigation report, as required under *the Environmental Protection Act 1994*, completed. c. Contaminated and hazardous materials removed and appropriately disposed or remediated. d. Validation testing confirms that contaminated soils have been removed or remediated. e. A site suitability statement from a SQP confirms the uses or activities for which the land is suitable, align to the approved PMLUs for the site.
RM3	Landform Development and Reshaping/Reprofiling	a. All major earthworks completed to final landform design; b. All slopes, with maximum slope lengths, in accordance with Attachment 1 'Landform Design';. c. Installation of erosion and sediment control systems to design and certified by an appropriate qualified person (AQP)[2]; and d. Design requirements for the levees (western levee and eastern levee) and adjacent mining excavation meet the following: i. the design level of the levee crest must be at least 1 in 1,000 AEP flood event for the adjacent watercourses; and ii. final landform slopes adjacent to the levee must remain stable and are to be designed with a factor of safety of one point five (1.5) (calculated from the levee toe) or above based on an accepted stability analysis.

RM4	Surface Preparation	a. Soil testing indicates the following parameters are met: i. Rootzone EC <1.5 dS/m (1,500 µS/cm), ii. Soil pH <9 and >6 as measured at any part of the root zone, iii. Exchangeable Sodium Percentage (ESP%) <6% (at 0-10cm depth). iv. P90 <50mm, v. P75< 2mm, vi. P25 <0.025mm, vii. Emerson aggregate class: 3. b. Topsoil spread to approximately 200 mm, where topsoil stripping has occurred; c. Ripping to a depth of approximately 200 mm has been completed; and d. Amelioration products have been applied to topsoil where appropriate and required.
RM5	Revegetation	a. Completed seeding using a selection of the recommended species mix consistent with Attachment 2 'Seed Mix'; b. Application of fertiliser where required at the rates recommended by an AQP; c. Tree seed mix, using a selection of the recommended species mix consistent with Attachment 2 'Seed Mix', has been applied at a rate of 80 kg/ha and will result in the following density rates: i. Grass, shrub and tree seeds – 7.5 kg/ha; ii. Cover crop seeds – 11 kg/ha; iii. Bulking agent – 61.5 kg/ha; d. Pasture seed mix, using a selection of the recommended species mix consistent with Attachment 2 'Seed Mix', has been applied at a rate of 100 kg/ha and will result in the following density rates: i. Pasture seeds – 9.5 kg/ha; ii. Cover crop seeds – 13.5 kg/ha; iii. Bulking agent – 77 kg/ha.
RM6	Achievement of Surface Requirements	a. No evidence of erosion classified as 'moderate' or 'severe' as defined by Attachment 3 'Erosion classification framework', b. Average erosion rate of <5t/ha/year. c. Species used in revegetation remain present and showing evidence of natural recruitment. d. Vegetation groundcover >50%;

		e. Pasture grasses achieve an average cover of 60% f. Weed[3] 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; g. Drainage follows appropriate pathways. h. Soil testing indicates the following parameters are met: i. Rootzone EC <1.5 dS/m (1,500 µS/cm), ii. Soil pH <9 and >6 as measured at any part of the root zone, iii. Exchangeable Sodium Percentage (ESP%) <6% (at 0-10cm depth). iv. P90 <50mm, v. P75< 2mm, vi. P25 <0.025mm, vii. Emerson aggregate class: 3. i. Design requirements for the levee and adjacent mining excavation must: i. not result in increased erosion of the bank or bed of the adjacent waterways – Isaac River, Hill Creek, and Ti-Tree Creek; ii. not significantly impact upon riparian or existing remnant vegetation (other than that allowed under the approved disturbance footprint); and iii. remain geotechnically and erosionally stable during any flood event up to 1 in 1,000 AEP.
RM7	Achievement of Surface Requirements (Water Storage)	a. Contaminated water and sediment removed and appropriately disposed or remediated; b. Dams to be retained are agreed to by the landholder or owner as evidenced by a signed landholder agreement; c. An AQP has certified that all contaminated water and sediment has been removed; d. Absence of active rill/gully erosion on dam banks, as defined in Attachment 3 'Erosion classification framework' e. Average erosion rate of <5t/ha/year. f. Dams to remain for landholder use are safe for stock access and have vegetated banks. g. Retained water storage water quality for quality characteristics to be below the trigger values for livestock drinking water defined in ANZECC & ARMCANZ 2000.

RM8	Achievement of Stable Condition (Grazing))	a. Land suitability assessment by an AQP[2] certifies that land has achieved a post-mine land suitability class[4] of 3 or better. b. Vegetation cover >80%; c. Species diversity spp./ha >3; d. All slopes with maximum slope lengths in accordance with Attachment 1 'Landform Design'; e. Assessed by an AQP as geotechnically stable with factor of safety of 1.5; f. No evidence of erosion classified as 'moderate' or 'severe' as defined by Attachment 3 'Erosion classification framework' g. Average erosion rate of <5t/ha/year. h. Drainage follows appropriate path ways; i. Surface water quality results monitored monthly during flow at, but not limited to, downstream locations specified in Attachment 4 'Receiving water upstream and downstream monitoring points', must not exceed the limits in Attachment 5 'Water Quality Limits', for a minimum of five (5) consecutive years. j. If the surface water quality exceeds criteria h.), the applicable upstream/reference site must be compared to the downstream site result; and quality measured at a downstream site must be equal to or less than the quality measured at the applicable upstream/reference site k. For a minimum of five (5) consecutive years groundwater quality must be monitored quarterly at, but not limited to, compliance bores specified in Attachment 6 'Groundwater monitoring locations and frequency', for all quality characteristics listed in Attachment 7 'Groundwater quality limits'. l. Groundwater quality results must not exceed the limits in Attachment 7 'Groundwater quality limits', for 3 consecutive results. Groundwater level is monitored quarterly and all results comply with Level Trigger Thresholds outlined in Attachment 8 'Groundwater level monitoring' for 10 consecutive years. m. Soil testing indicates the following parameters are met: i. Rootzone EC <1.5 dS/m (1,500 µS/cm), ii. (Soil pH <9 and >6 as measured at any part of the root zone, iii. Exchangeable Sodium Percentage (ESP%) <6% (at 0-10cm depth) iv. P90 <50mm, v. P75< 2mm,

		vi. P25 <0.025mm, vii. Emerson aggregate class: 3. n. Design requirements for the levee and adjacent mining excavation must: i. not result in increased erosion of the bank or bed of the adjacent waterways – Isaac River, Hill Creek, and Ti-Tree Creek; ii. not significantly impact upon riparian or existing remnant vegetation (other than that allowed under the approved disturbance footprint); and iii. remain geotechnically and erosionally stable during any flood event up to 1 in 1,000 AEP.
RM9	Surface Preparation (Diversion)	a. Permanent diversion must be designed and constructed to: i. incorporate natural features (including geomorphic and vegetation) present at the location of the diversion; ii. maintain the pre-existing hydrologic characteristics of surface water and groundwater systems for the area in which the drainage feature diversion is located; iii. maintain the hydraulic characteristics of the permanent drainage feature diversion that are equivalent to other local watercourses and are suitable for the area in which the diversion is located without using artificial structures that require on-going maintenance; iv. maintain sediment transport and water quality regimes that allow the diversion to be self-sustaining, while minimising any impacts to upstream and downstream water quality, geomorphology or vegetation; and v. maintain equilibrium and functionality in all substrate conditions at the location of the diversion; b. Certification from an AQP that diversions meet design requirements in a.; c. Evidence of long term stability; d. Weed[3] 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
RM10	Achievement of Stable Condition (Diversion)	a. Prepare assessment report by an AQP certifying that the diversion is operating in accordance with, or otherwise against, ACARP[5] (C20017, 2014) criteria

		b. Surface water quality results monitored monthly during flow at, but not limited to, downstream locations specified in Attachment 4 'Receiving water upstream and downstream monitoring points', must not exceed the limits in Attachment 5 'Water Quality Limits', for a minimum of five (5) consecutive years. c. If the surface water quality exceeds criteria b., the applicable upstream/reference site must be compared to the downstream site result; and quality measured at a downstream site must be equal to or less than the quality measured at the applicable upstream/reference site. d. Weed[3] 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. e. The diversion and associated structures maintain equilibrium and functionality, and do not require ongoing maintenance.
RM11	Achievement of Stable Condition (Retained water storages)	a. AQP certifies that all contaminated sediment has been removed from all dams that are not backfilled. b. Dams to remain for landholder use are safe for stock access and have vegetated banks c. All retained water storages achieve geotechnical and erosional safety and stability as assessed and approved by an AQP; d. No evidence of erosion on the retained dam banks classified as 'moderate' or 'severe' as defined by Attachment 3 - Erosion classification framework. e. Retained water storage water quality for quality characteristics to be below the trigger values for livestock drinking water defined in Environmental Protection (Water) Policy 2009 Isaac River Sub-basin Environmental Values and Water Quality Objectives Basin No. 130 (part), including all waters of the Isaac River Sub-basin (including Connors River), September 2011, or the most recent version.
RM12	Achievement of realignment of Suttor Developmental Road	a. The Suttor Developmental Road is gazetted as a State Road and accepted by the Department of Transport and Main Roads (TMR)

Notes –

[1] Suitability qualified person (SQP) retains its definition under section 564 of the EP Act.

[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.

[3]Weeds are defined by the Biosecurity Act 2014.

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

[5] The ACARP Project C20017 (2014) 'Criteria for functioning river landscape units in mining and post mining landscapes'

Section D – Non-use management areas

(IA1) Improvement area 1

Non-use management area (NUMA)										
Improvement area	IA1									
Relevant activities	Residual Void									
Total size (ha)	52.5									
Commencement of first milestone: MM1	Year 18									
NUMA	Residual Void / Water Containment									
Date area is available	10/12/20XX +18									
Cumulative area available (ha)	52.5									
Milestone completed by	10/12/20XX +21	10/12/20XX +26								
Milestone Reference	**Cumulative area achieved (ha)**									
MM1	52.5									
MM2		52.5								

Improvement area milestones

Milestone reference	Management milestone	Milestone criteria
MM1	Highwall and low wall treatment	a. High wall maximum slope of 100% for non-competent rock; b. High wall maximum slope of 214% for competent rock and stable landform; c. Low wall maximum slope ≤75% d. Access to highwalls is restricted by a safety bund constructed to the following specifications: i. The bund's pit-side toe is at a minimum setback distance of 25m from the highwall crest which achieves a FoS >1.5. ii. A minimum height of 2m; and e. A minimum base width of 5mThe boundary of the residual void area is fenced on the outside of the safety bund to specification (five strand barbed stock fencing). f. Safety signage designed in accordance with Australian Standard is erected at 100m intervals along the fence line. g. Geotechnical Assessment to be undertaken by a SQP.
MM2	Achievement of sufficient improvement	a. High wall maximum slope of 100% for non-competent rock; b. High wall maximum slope of 214% for competent rock and stable landform; c. Low wall maximum slope ≤75%; d. Certification from an appropriately qualified person that void highwalls are safe for humans, wildlife, and stock. e. Void assessed to be geotechnically stable by an AQP, achieving a minimum factor of safety (FoS) of 1.5. f. Access to highwalls is restricted by a safety bund constructed to the following specifications: i. The bund's pit-side toe is at a minimum setback distance of 25m from the highwall crest which achieves a FoS >1.5. ii. A minimum height of 2m; and iii. A minimum base width of 5m g. The boundary of the residual void area is fenced on the outside of the safety bund to specification (five strand barbed stock fencing). h. Safety signage designed in accordance with Australian Standard is erected at 100m intervals along the fence line. i. Coal seams covered in areas not inundated permanently; j. Absence of active rill/gully erosion; and k. No access to void water for livestock.

Section E – Attachments

Attachment 1 – Landform Design

Slope (%)	Maximum slope length (m)*
20	50
17	100
15	133
10	220
5	520
3	900

**between water management structures*

Attachment 2 – Seed Mix

	Scientific Name	Common Name
Acacia	Acacia bancroftii	Bancroft's Wattle
	Acacia complanata	Long-pod Wattle
	Acacia holosericea	Strap Wattle
	Acacia macradenia	Zig-Zag Wattle
	Acacia salicina	Sally Wattle
	Acacia saligna	Golden Wreath Wattle
	Acacia stenophylla	Shoestring Acacia
Eucalyptus	Eucalyptus camaldulensis	River Red Gum
	Eucalyptus cambageana	Dawson River Blackbutt
	Eucalyptus citriodora	Lemon-Scented Gum
	Eucalyptus crebra	Narrow-leaved Iron Bark
	Eucalyptus drepanophylla	Iron Bark
	Eucalyptus longirostrata	Grey Gum
	Eucalyptus populnea	Poplar Box
	Eucalyptus punctata	Grey Gum
	Eucalyptus tereticornis	Red Gum
	Eucalyptus thozetiana	Napunyah
Other trees and shrubs	Atalaya hemiglauca	Cattle Bush
	Brachychiton rupestris	Queensland Bottle Tree
	Casuarina crisata	Belah
	Lysiphyllum carronii	Queensland Ebony

	Senna artemisioides	Wormwood Senna
	Senna notabilis	Cockroach Bush
Native Grasses	Astrebla lappacea	Curly Mitchell Grass
	Cynodon dactylon	Bermuda Grass
	Dichanthium sericeum	Queensland Bluegrass
	Digitaria didactyla	Queensland Blue couch
	Heteropogon contortus	Black Speargrass
	Themeda australis	Kangaroo Grass
	Paspalidium caespitosum	Brigalow Grass
Legumes	Clitoria ternatea	Butterfly Pea
	Chamaecrista rotundifolia	Round-leaf Cassia
	Stylosanthes hamata	Caribbean Stylo
	Stylosanthes scabra	Shrubby Stylo
Exotic Pasture Grasses	Cenchrus ciliaris	Dhamn Grass
	Chloris gayana	Rhodes Grass
	Urochloa mosambicensis	Sabi Grass
	Panicum coloratum	Kleingrass
	Panicum maximum	Guinea Grass

Attachment 3 – Erosion classification framework*

Erosion classification	Minor	Moderate	Severe
Sheet erosion	Shallow soil deposits downslope	Partial exposure of roots; moderate soil deposits downslope, etc.	Loss of surface horizon; root exposure; moderate substantial soil deposits downslope
Rill erosion	<0.3m deep Occasional rills	<0.3m deep Common rills	<0.3m deep. Numerous rills forming corrugated ground surface
Gully erosion	>0.3m deep Gullies are isolated, linear, discontinuous, and restricted to primary or minor drainage lines	>0.3m deep Gullies are linear, continuous, and restricted to primary or minor drainage lines	>0.3m deep Gullies are continuous or discontinuous, and either tend to branch away from primary drainage lines and on to foot slopes, or have multiple branches within drainage lines
Tunnel erosion	Absent	Absent	Present
Mass movement	Absent	Absent	Present

**the erosion classification framework is based on the 'Australian Soil and Land Survey Field Handbook' Third Edition. by the National Committee on Soil and Terrain (2009)*

Attachment 4 – Receiving water upstream and downstream monitoring points

Monitoring Points	Receiving waters location description	Latitude (decimal degree, GDA94)	Longitude (decimal degree, GDA94)
Upstream monitoring points			
MP01	Isaac River 1000 meters upstream of site	-21.545222	148.145438
MP02	Isaac River at downstream site boundary upstream of RP1	-21.565999	148.142814
MP03	Ti-Tree Creek upstream of RP2	-21.549080	148.112127
Downstream monitoring points			
MP04	Isaac River downstream of RP1	-21.581287	148.137026
MP05	Ti-Tree Creek 2000 m downstream of RP2	-21.545931	148.125478

Attachment 5 – Water Quality Limits

Quality characteristic	Limit	Comment on limit
pH	6.5-8.5	EA Table C6, Upper Isaac River catchment waters WQO
Electrical Conductivity (µS/cm)	250	EA Table C6, Upper Isaac River catchment waters WQO
Turbidity (NTU)	50	EA Table C6, Upper Isaac River catchment waters WQO
Sulphate (mg/L)	25	EA Table C6, Upper Isaac River catchment waters WQO
Aluminium - dissolved (µg/L)[3]	55[2]	ANZG 2018
Arsenic - dissolved (µg/L)[3]	13[2]	ANZG 2018
Boron - dissolved (µg/L)[3]	940[2]	ANZG 2018
Cadmium - dissolved (µg/L)[3]	0.2[2]	ANZG 2018
Cobalt - dissolved (µg/L)[3]	1.4[2]	ANZG 2018
Chromium - dissolved (µg/L)[3]	1[2]	ANZG 2018
Copper - dissolved (µg/L)[3]	1.4[2]	ANZG 2018
Mercury - dissolved (µg/L)[3]	0.06[2]	ANZG 2018
Lead - dissolved (µg/L)[3]	3.4[2]	ANZG 2018
Manganese - dissolved (µg/L)[3]	1900[2]	ANZG 2018
Molybdenum - dissolved (µg/L)[3]	34[2]	ANZG 2018
Nickel - dissolved (µg/L)[3]	11[2]	ANZG 2018
Selenium - dissolved (µg/L)[3]	5[2]	ANZG 2018
Uranium - dissolved (µg/L)[3]	0.5[2]	ANZG 2018

Quality characteristic	Limit	Comment on limit
Vanadium - dissolved (µg/L)[3]	6[2]	ANZG 2018
Zinc - dissolved (µg/L)[3]	8[2]	ANZG 2018
Ammonia (µg/L)	900[2]	ANZG 2018
Nitrate (µg/L)	1100	
Total recoverable hydrocarbons (C6-C9) (µg/L)	20	
Total recoverable hydrocarbons (C10-C36) (µg/L)	100	
Major ions (mg/L) Calcium, chloride, potassium, magnesium, sodium, bicarbonate	For interpretation purposes only	
Hardness (mg/L)	For interpretation purposes only	

1. DEHP (2011) Isaac River Sub Basin WQO – surface water
2. ANZG (2018) Aquatic ecosystem protection for moderately disturbed system (95% protection)
3. All metals and metalloids must be measured as total (unfiltered) and dissolved (filtered).

Attachment 6 – Groundwater monitoring locations and frequency

Monitoring Point	Monitored Unit	Compliance assessment required		Location		Surface RL (m)	Monitoring Frequency
		Water quality (Y/N)	Water level (Y/N)	**Easting** (GDA94 – Zone 55)	**Northing** (GDA94 – Zone 55)		
Interpretation Bores							Quarterly
GW01	Alluvium	N	N	617299	7618210	327	
NEW	Regolith	N	N	TBA	TBA	TBA	
Compliance Bores							
GW03	Alluvium	Y	N	618094	7614389	308	
GW06	Alluvium	Y	Y	618097	7616723	314	
GW07	Alluvium	Y	Y	617640	7613075	300	
GW08	Alluvium	Y	N	617041	7613900	307	
GW09	Alluvium	Y	Y	617525	7614070	307	
GW19_37a	Alluvium	Y	Y	618034	7615771	309	
GW19_33	Alluvium	N	Y	618664	7617348	311	
New	Alluvium	Y	Y	TBA	TBA	TBA	
GW30c	Regolith	N	Y	618094	7617368	318	
GW31b	Regolith	N	Y	617506	7617500	322	
New	Regolith	Y	Y	TBA	TBA	TBA	
GW10	Leichardt / Vermont Seam	Y	Y	616032	7617014	335	

Monitoring Point	Monitored Unit	Compliance assessment required		Location		Surface RL (m)	Monitoring Frequency
		Water quality (Y/N)	Water level (Y/N)	**Easting** (GDA94 – Zone 55)	**Northing** (GDA94 – Zone 55)		
GW11	Leichardt / Vermont Seam	Y	Y	616294	7616680	332	
GW13	Leichardt / Vermont Seam	Y	Y	616881	7615480	319	
GW30a	Leichardt / Vermont Seam	N	Y	618084	7617395	318	
GW31a	Leichardt / Vermont Seam	N	Y	617509	7617189	322	
New	Leichardt / Vermont Seam	Y	Y	TBA	TBA	TBA	
GW30b	Burton Rider Seam	N	Y	618088	7617382	318	
GW29a	Underburden	Y	Y	618081	7616561	314	

1. The EA EPML00475513 and this PRCP schedule must be amended to populate all missing / TBA monitoring locations and values within Attachment 6 – Groundwater monitoring locations and frequency (EA Table D1 – Groundwater monitoring locations and frequency) prior to the commencement of mining activities (including construction activities, excluding exploration activities).

Attachment 7 – Groundwater quality limits

Parameter (units)	Bore	Contaminant Limit
pH (pH units)	All bores	6.5 – 8.5[1]
Electrical conductivity (µS/cm)	GW07, GW10, GW11	7,000
	GW06, GW13, GW29a	15,700
	GW09, GW19_37a, GW03, GW08	2,633
Aluminium - dissolved (µg/L)[3]	All bores	55[2]
Arsenic - dissolved (µg/L)[3]	All bores	13[2]
Boron - dissolved (µg/L)[3]	GW03, GW07, GW08, GW09, GW19_37a, GW11, GW13, GW29a	630
Boron - dissolved (µg/L)[3]	GW06 & GW10	1660
Cadmium - dissolved (µg/L)[3]	All other bores	0.2[2]
Cobalt - dissolved (µg/L)[3]	All bores except GW07	1.4[2]
Cobalt - dissolved (µg/L)[3]	GW07	4
Chromium - dissolved (µg/L)[3]	All bores	1[2]
Copper - dissolved (µg/L)[3]	All bores	5
Mercury - dissolved (µg/L)[3]	All bores	0.06[2]
Lead - dissolved (µg/L)[3]	All bores	3.4[2]
Manganese - dissolved (µg/L)[3]	All bores	1900[2]
Molybdenum - dissolved (µg/L)[3]	All bores	34[2]
Nickel - dissolved (µg/L)[3]	All bores	11[2]
Selenium - dissolved (µg/L)[3]	All bores	5[2]
Uranium - dissolved (µg/L)[3]	All bores, except GW06	8
Uranium - dissolved (µg/L)[3]	GW06	30
Vanadium - dissolved (µg/L)[3]	All bores	6[2]
Zinc - dissolved (µg/L)[3]	All bores	20
Sulfate (mg/L)	GW06	135
	GW03, GW07, GW08, GW09	50
	GW10, GW11, GW13, GW29a, GW19-37a	25[1]

Parameter (units)	Bore	Contaminant Limit
Major ions (mg/L) Calcium, chloride, potassium, magnesium, sodium, bicarbonate	All bores	For interpretation purposes only
Hardness (mg/L)	All bores	For interpretation purposes only

1. DEHP (2011) Isaac River Sub Basin WQO – surface water
2. ANZG (2018) Aquatic ecosystem protection for moderately disturbed system (95% protection)
3. All metals and metalloids must be measured as total (unfiltered) and dissolved (filtered).

Attachment 8 – Groundwater level monitoring

Monitoring Location	Monitored Unit	Pre-mining baseline level (mBDL)	Level Trigger Threshold[1]
GW01	Alluvium	TBD	2.0 m drawdown from the pre-mining baseline level
GW06	Alluvium	TBD	2.5 m drawdown from the pre-mining baseline level
GW07	Alluvium	TBD	2.0 m drawdown from the pre-mining baseline level
GW09	Alluvium	TBD	2.8 m drawdown from the pre-mining baseline level
GW19_37a	Alluvium	TBD	7.9 m drawdown[3] from the pre-mining baseline level
GW19_33	Alluvium	TBD	TBA
TBA	Alluvium	TBD	TBA
GW30c	Regolith	TBD	2.0 m drawdown from the pre-mining baseline level
GW31b	Regolith	TBD	2.0 m drawdown from the pre-mining baseline level
TBA	Regolith	TBD	TBA
GW10	Leichardt/Vermont Seam	TBD	63.9 m drawdown from the pre-mining baseline level
GW11	Leichardt/Vermont Seam	TBD	110.7 m drawdown from the pre-mining baseline level
GW13	Leichardt/Vermont Seam	TBD	45.7 m drawdown from the pre-mining baseline level
GW30a	Leichardt/Vermont Seam	TBD	2.4 m drawdown from the pre-mining baseline level
GW31a	Leichardt/Vermont Seam	TBD	5.3 m drawdown from the pre-mining baseline level
TBA	Leichardt / Vermont Seam	TBD	TBA

Monitoring Location	Monitored Unit	Pre-mining baseline level (mBDL)	Level Trigger Threshold[1]
GW30b	Burton Rider Seam	TBD	2.2 m drawdown from the pre-mining baseline level
GW29a	Underburden	TBD	3.0 m drawdown from the pre-mining baseline level

1. 90th percentile predicted maximum cumulative drawdown over the life of the Project beyond any background non-mining related influence, except where specifically identified.
2. Pre-mining groundwater baseline level to be provided through an amendment application of EA EPML00475513 and this PRCP schedule prior to the commencement of mining activities (EA Table D3 – Groundwater level monitoring).

END OF **PRCP** SCHEDULE