

Permit

Environmental Protection Act 1994

Environmental authority P-EA-100658735

This environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.

Environmental authority number: P-EA-100658735

Environmental authority takes effect on 26 March 2025

The anniversary date of this environmental authority is the same day each year and remains 15 September. The payment of the annual fee will be due each year on this day.

An annual return will be due each year on 01 April.

Environmental authority holder(s)

Name(s)	Registered address
Centurion Coal Mining Pty Ltd	Level 14, 31 Duncan Street, Fortitude Valley QLD 4006

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
Ancillary 08 - Chemical Storage 1: Storing a total of 50t or more of chemicals of dangerous goods class 1 or class 2, division 2.3 under subsection (1)(a)	ML70495, ML1790
Schedule 3 09: A mining activity involving drilling, costeaning, pitting or carrying out geological surveys causing significant disturbance	ML70495, ML1790

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority (EA) is issued is a restatement of the ERA as defined by legislation at the time the EA is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an EA as to the scale, intensity or manner of carrying out an ERA, the conditions prevail to the extent of the inconsistency.

An EA authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the EA specifically authorises environmental harm.



A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

Contaminated land

It is a requirement of the EP Act that an owner or occupier of contaminated land give written notice to the administering authority if they become aware of the following:

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or
- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days);

that is causing, or is reasonably likely to cause, serious or material environmental harm.

For further information, including the form for giving written notice, refer to the Queensland Government website www.qld.gov.au, using the search term 'duty to notify'.

Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

- a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority-on the nominated day; or
- b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or
- c) otherwise-on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the *Sustainable Planning Act 2009* or an SDA Approval under the *State Development and Public Works Organisation Act 1971*), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the administering authority written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.



Signature

Emma Burgess
Department of the Environment, Tourism, Science and
Innovation
Delegate of the administering authority
Environmental Protection Act 1994

26 March 2025

Date

Enquiries:
Business Centre (Coal)
PO Box 3028, Emerald QLD 4720
Phone: (07) 4987 9320
Email: CRMining@des.qld.gov.au

Privacy statement

Pursuant to section 540 of the EP Act, the Department is required to maintain a register of certain documents and information authorised under the EP Act. A copy of this document will be kept on the public register. The register is available for inspection by members of the public who are able to take extracts, or copies of the documents from the register. Documents that are required to be kept on the register are published in their entirety, unless alteration is required by the EP Act. There is no general discretion allowing the Department to withhold documents or information required to be kept on the public register. For more information on the Department's public register, search 'public register' at www.qld.gov.au. For queries about privacy matters please email privacy@des.qld.gov.au or telephone 13 74 68.

Obligations under the *Environmental Protection Act 1994*

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the 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)

Other permits required

This permit only provides an approval under the *Environmental Protection Act 1994*. In order to lawfully operate you may also require permits / approvals from your local government authority, other business units within the department and other State Government agencies prior to commencing any activity at the site. For example, this may include permits / approvals with your local Council (for planning approval), the Department of Transport and Main Roads (to access state controlled roads), the Department of Natural Resources and Mines, Manufacturing, and Regional and Rural Development (to clear vegetation), and the Department of Primary Industries (to clear marine plants or to obtain a quarry material allocation).

Conditions of environmental authority

Schedule A: General	
Condition number	Condition
A1	Prevent and/or minimise likelihood of environmental harm In carrying out the environmentally relevant activities, the environmental authority holder must take all reasonable and practicable measures to prevent and/or to minimise the likelihood of environmental harm being caused. Any environmentally relevant activity, that, if carried out incompetently, or negligently, may cause environmental harm, in a manner that could have been prevented, shall be carried out in a proper manner in accordance with the conditions of this authority.
A2	Maintenance of measures, plant and equipment The environmental authority holder must ensure: a) that all measures, plant and equipment necessary to ensure compliance with the conditions of this environmental authority are installed; b) that such measures, plant and equipment are maintained in a proper condition; and c) that such measures, plant and equipment are operated in a proper manner.
A3	No change, replacement or alteration of any plant or equipment is permitted if the change, replacement or alteration increases, or is likely to substantially increase, the risk of unlawful environmental harm caused by the mining activities.
A4	Monitoring Record, compile and keep for a minimum of five (5) years all monitoring results required by this environmental authority and make available for inspection all or any of these records upon request by the administering authority.
A5	Where monitoring is a requirement of this environmental authority, ensure that a competent person(s) conducts all monitoring.
A6	Record Keeping Unless otherwise specified by a condition of this environmental authority and records must be: a) kept for a period of 5 years; and b) provided to the administering authority upon request and in the format required.
A7	Notification of emergencies, incidents and exceptions All reasonable actions are to be taken to minimise environmental harm, or potential environmental harm, resulting from any emergency, incident or circumstances not in accordance with the conditions of this environmental authority.

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A8	As soon as practicable after becoming aware of any emergency, incident or information about circumstances which results or may result in environmental harm not in accordance with the conditions of this environmental authority, the administering authority must be notified in writing.
A9	Not more than ten (10) business days following the initial notification of an emergency, incident or information about circumstances which result or may result in environmental harm, written advice must be provided to the administering authority in relation to: a) proposed actions to prevent a recurrence of the emergency or incident; b) the outcomes of actions taken at the time to prevent or minimise environmental harm; and c) proposed actions to respond to the information about circumstances which result or may result in environmental harm.
A10	As soon as practicable, but not more than six (6) weeks following the initial notification of an emergency, incident or information about circumstances which result or may result in environmental harm, environmental monitoring must be performed and written advice must be provided of the results of any such monitoring performed to the administering authority.
A11	The notification of emergencies, incidents or circumstances (incident) which result or may result in environmental harm in accordance with condition A9 must include but not be limited to the following: a) the holder of the environmental authority; b) the location of the incident; c) the number of the environmental authority; d) the name and telephone number of the designated contact person; e) the time of the incident; f) the time the holder of the environmental authority became aware of the incident; g) the suspected cause of the incident; h) the environmental harm caused, threatened, or suspected to be caused by the incident; and i) actions taken to prevent any further incident and mitigate any environmental harm caused by the incident.
A12	Mining activities – general All land subject to mining activities must be rehabilitated to a non-polluting, safe, stable and self-sustaining landform.
A13	Contaminants must not be released to the receiving environment unless they are in accordance with the contaminant limits authorised by this environmental authority.
A14	This environmental authority does not authorise environmental harm unless a condition contained within the authority explicitly authorises that harm. Where there is no condition or the authority is silent on a matter, the lack of a condition or silence shall not be construed as authorising harm.

A15	The only mining activities to be carried out under this environmental authority are the mining activities defined within the parameters in Table 1 (Mining Activities) and identified in Figures 1 to 4 attached to this environmental authority. <i>Note: Variation of mining activities to those identified within the conceptual designs is considered to be in accordance with these conditions as long as the variation is not significantly different to the conceptual design or causes a significant increase in environmental harm.</i>
A16	Definitions Words and phrases used throughout this environmental authority are defined in the Definitions section of this authority. Where a definition for a term used in this environmental authority is sought and the term is not defined within this environmental authority, the definitions in the <i>Environmental Protection Act 1994</i>, its regulations and policies must be used.
A17	Conditions The conditions of this environmental authority are in force until a surrender of the authority is accepted pursuant to the <i>Environmental Protection Act 1994</i>. The conditions apply unless an amendment is approved pursuant to the <i>Environmental Protection Act 1994</i>.

Table 1 (Mining Activities)

Mine Domain	Mine Feature Domain	Location (GDA2020)	Maximum Disturbance Area	Constraints
Exploration activities	Drill holes and pads	As per Figure 1	1400 metres squared per drill pad	Total disturbed area must not exceed 1.4 ha
	Vertical and lateral wells	As per Figure 1	6400 metres squared per drill pad	Total disturbed area must not exceed 11.80ha
	Historic holes and pads	As per Figure 1	3000 metres squared per drill pad	Quantity: 310 drill holes
Ancillary Infrastructure	Roads and tracks	As per Figure 1		Scale and intensity

Schedule B: Air	
Condition number	Condition
B1	Dust nuisance Subject to conditions B2 and B3 of this environmental authority, the release of dust or particulate matter or both resulting from the mining activity must not cause an environmental nuisance, at any sensitive or commercial place.
B2	When requested by the administering authority, dust and particulate monitoring must be undertaken within a reasonable and practicable timeframe nominated by the administering authority to investigate any complaint (which is neither frivolous nor vexatious nor based on mistaken belief in the opinion of the authorised officer) of environmental nuisance at any sensitive or commercial place, and the results must be notified within 14 days to the administering authority following completion of monitoring.
B3	If the environmental authority holder can provide evidence through monitoring that the following limits are not being exceeded then the holder is not in breach of B1: - dust deposition of 120 milligrams per square metre per day, averaged over one month, when monitored in accordance with AS 3580.10.1 <i>Methods for sampling and analysis of ambient air – Determination of particulates – Deposited matter – Gravimetric method of 1991</i> (or more recent editions), or - a concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM₁₀) suspended in the atmosphere of 50 micrograms per cubic metre over a 24 hour averaging time, at a sensitive or commercial place downwind of the operational land, when monitored in accordance with - Particulate matter – Determination of suspended particulate PM₁₀ high-volume sampler with size-selective inlet – Gravimetric method, when monitored in accordance with AS 3580.9.6 <i>Methods for sampling and analysis of ambient air – Determination of suspended particulate matter – PM₁₀ high volume sampler with size-selective inlet – Gravimetric method of 1990</i> (or more recent editions); or any alternative method of sampling PM₁₀, which may be permitted by the <i>Air Quality Sampling Manual</i> as published from time to time by the administering authority.
B4	If monitoring indicates exceedance of the relevant limits in condition B3, then the environmental authority holder must: - address the complaint including the use of appropriate dispute resolution if required; and - immediately implement dust abatement measures so that emissions of dust from the activity do not result in further environmental nuisance.
B5	Greenhouse Gas Abatement Plan The following Greenhouse Gas Abatement Plan must be implemented and complied with whilst the EA is in force and any activities are being carried out: Greenhouse Gas Abatement Plan, Centurion Coal Mining Pty Ltd, (version 5) or as updated from time to time as allowed under condition B6.

B6	The GHG abatement plan must be reviewed every year to update the annual emission targets (as expressed in t CO ₂ -e) to reflect actual production variables and the emission reduction program to incorporate opportunities to further reduce emissions and improve energy efficiency.
B7	Updates to the Greenhouse Gas Abatement Plan carried out under condition B6 must meet the requirements of Appendix A of the latest version of the <i>Queensland Greenhouse Gas Emissions Guideline</i> (ESR/2024/6819).
B8	Audit An appropriately qualified person must undertake an annual audit by 30 July to determine whether the Greenhouse Gas Abatement Plan has been implemented and complied with during the previous 12 months.
B9	Statement of compliance A statement of compliance must be prepared about the work undertaken to implement and comply with the GHG Abatement Plan. The statement of compliance must: - be prepared by an appropriately qualified person; and - be submitted to the administering authority within 10 business days of the audit under condition B8 being completed; and - consider the following compliance criteria: - whether the emission reduction targets in the Greenhouse Gas Abatement Plan have been correctly calculated and met. - whether the emission reduction measures in the Greenhouse Gas Emission Reduction Program have been implemented. - whether the Greenhouse Gas Abatement Plan has been reviewed in accordance with review provisions in the Greenhouse Gas Abatement Plan. - whether greenhouse gas emissions have been monitored in accordance with the monitoring program in the Greenhouse Gas Abatement Plan. - whether public reporting on progress toward the emission reduction targets has been carried out in accordance with the reporting program in the Greenhouse Gas Abatement Plan. - state whether the work complies with the above compliance criteria. - be supported by the following information: - methodology, assumptions and input data used to determine greenhouse gas emissions.
B10	Public reporting Within 20 business days of the audit being completed under condition B8 the following information must be published on the environmental authority holder's website: - the statement of compliance required under condition B9; and - the latest version of the Greenhouse Gas Abatement Plan.

B11	Non-compliance Any non-compliance with the Greenhouse Gas Abatement Plan must be reported to the administering authority in accordance with the general Conditions A7, A8, A9 and A10 for contravention of a condition.
B12	The holder of this environmental authority must establish a monitoring and mitigation program to minimise methane emissions from leaking and venting in the absence of flaring units
B13	A Gas Drainage Management Plan must be developed by an independent suitably qualified person and implemented, for the Centurion North Project. This plan must be submitted to the administering authority upon request.
B14	The Gas Drainage Management Plan must ensure that: • Flaring is implemented as a minimum abatement measure for drainage gas destruction. • Enclosed flares are prioritized where practicable due to their higher destruction efficiency. • Flare downtime is minimized to reduce methane venting through measures such as self-ignition functionality and a rectification program to address potential self-ignition failures. • Methane leakage is minimized through measures such as a periodic leak detection and repair program.

Schedule C: Water	
Condition number	Condition
C1	Contaminant release Contaminants that will or have the potential to cause environmental harm must not be released directly or indirectly to any waters.
C2	Water reuse Water contaminated by mining activity may be piped or trucked or transferred by some other means that does not contravene the conditions of this authority during periods of dry weather for the purpose of supplying stock water to directly adjoining properties owned by the environmental authority holder or a third party and subject to compliance with the quality release limits specified in Table 2 (Stock water release limits) .
C3	Water contaminated by mining activity may be piped or trucked or transferred by some other means that does not contravene the conditions of this authority during periods of dry weather for the purpose of supplying irrigation water to directly adjoining properties owned by the environmental authority holder or a third party and subject to compliance with quality release limits in Table 3 (Irrigation water release limits) .

Table 2 (Stock water release limits)

Quality characteristic	Units	Minimum	Maximum
pH	pH units	6.5	8.5
Electrical Conductivity	µS/cm	N/A	5000

Table 3 (Irrigation water release limits)

Quality characteristic	Units	Minimum	Maximum
pH	pH units	6.5	8.5
Electrical Conductivity	µS/cm	N/A	TBD [Note 1]

[Note 1] A site-specific value to be determined in accordance with ANZECC & ARMICANZ (2000) Irrigation Guidelines

C4	Water contaminated by mining activity may be piped or trucked off the mining lease for the purpose of supplying water to a third party for purpose of construction and/or road maintenance in accordance with the conditions of this environmental authority.
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C5	If the responsibility of water contaminated by mining activities (the water) is given or transferred to another person in accordance with conditions C2, C3 or C4: a) the responsibility of the water must only be given or transferred in accordance with a written agreement (the third party agreement); and b) include in the third party agreement a commitment from the person utilising the water to use water in such a way as to prevent environmental harm or public health incidences and specifically make the persons aware of the General Environmental Duty (GED) under section 319 of the <i>Environmental Protection Act 1994</i>, environmental sustainability of the water disposal and protection of environmental values of waters.
C6	Water general All determinations of water quality must be: a) performed by a person or body possessing appropriate experience and qualifications to perform the required measurements; b) made in accordance with methods prescribed in the latest edition of the administering authority's Water Quality Sampling Manual; c) collected from the monitoring locations identified within this environmental authority, within 10 hours of each other where possible; d) carried out on representative samples; and e) laboratory testing must be undertaken using a laboratory accredited (e.g. NATA) for the method of analysis being used. <i>Note: Condition C6 requires the Water Quality Manual to be followed and where it is not followed because of exceptional circumstances this should be explained and reported with the results.</i>
C7	Temporary interference with waterways Temporarily destroying native vegetation, excavating, or placing fill in a watercourse, lake or spring necessary for and associated with mining activity must be undertaken in accordance with Department of Environment and Resource Management <i>Guideline - Activities in a Watercourse, Lake or Spring associated with Mining Activities</i>.
C8	Saline drainage The holder of this environmental authority must ensure proper and effective measures are taken to avoid or otherwise minimise the generation and/or release of saline drainage.
C9	Acid rock drainage The holder of this environmental authority must ensure proper and effective measures are taken to avoid or otherwise minimise the generation and/or release of acid rock drainage.
C10	Stormwater and water sediment controls An erosion and sediment control plan must be developed by an appropriately qualified person and implemented for all stages of the exploration and mining activities on the site to minimise erosion and the release of sediment to waters and contamination of stormwater.
C11	The maintenance and cleaning of any vehicles, plant or equipment must not be carried out in areas from which contaminants can be released into any receiving waters.

C12	Any spillage of wastes, contaminants or other materials must be cleaned up as quickly as practicable to minimise the release of wastes, contaminants or materials to any stormwater drainage system or receiving waters.
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Schedule D: Acoustic	
Condition number	Condition
D1	Noise and Vibration Subject to conditions D2 and D3, noise from the mining activity must not cause an environmental nuisance at any sensitive or commercial place.
D2	When requested by the administering authority, noise monitoring must be undertaken within a reasonable and practicable timeframe nominated by the administering authority to investigate any complaint (which is neither frivolous nor vexatious nor based on mistaken belief in the opinion of the authorised officer) of environmental nuisance at any sensitive or commercial place, and the results must be notified within 14 days to the administering authority following completion of monitoring.
D3	If the environmental authority holder can provide evidence through monitoring that the limits defined in Table 4 (Noise Limits), are not being exceeded then the holder is not in breach of condition D1. Monitoring must include: a) L_A, max adj, T; b) relevant background sound level; c) the level and frequency of occurrence of impulsive or tonal noise; d) atmospheric conditions including wind speed and direction; and e) location, date and time of recording.
D4	If monitoring indicates exceedance of the limits in Table 4 (Noise Limits), then the environmental authority holder must: a) address the complaint including the use of appropriate dispute resolution if required; and b) immediately implement noise abatement measures so that emissions of noise from the activity do not result in further environmental nuisance.
D5	The method of measurement and reporting of noise levels must comply with the latest edition of the administering authority's <i>Noise Measurement Manual</i>.

Table 4 (Noise Limits)

Noise Levels dB(A)	Monday to Sunday (including public holidays)		
	7am-6pm	6pm-10pm	10pm-7am
	Noise measured at a 'sensitive or commercial place'		
L_{A10} , adj, 10mins	B/G + 5	B/G + 5	B/G + 3
L_{A1} , adj, 10mins	B/G + 10	B/G + 10	B/G + 5

Note: Where "Background" means background sound pressure level measured in accordance with the latest edition of the administering authority's *Noise Measurement Manual*. **Table 4 (Noise Limits)** does not purport to set operating hours for the mining activities.

Schedule E: Waste	
Condition number	Condition
E1	Storage of tyres Scrap tyres stored awaiting disposal or transport for take-back and recycling, or waste- to-energy options must be stored in stable stacks and at least 10 metres from any other scrap tyre storage area, or combustible or flammable material, including vegetation.
E2	All reasonable and practicable fire prevention measures must be implemented, including removal of grass and other materials within a 10 metre radius of the scrap tyre storage area.
E3	Where possible and practical, cleared vegetation must be mulched and/or replaced in rehabilitated areas. Cleared vegetation may be burnt as a last resort and only if there is minimal risk of causing nuisance to the neighbouring sensitive receptors. <i>Note: This condition does not exempt the environmental authority holder from obtaining any approval required under other legislation to conduct a burn.</i>
E4	General waste must not be burnt or be allowed to burn on the licensed site unless permitted by the administering authority. <i>Note: This condition does not exempt the environmental authority holder from obtaining any approval required under other legislation to conduct a burn.</i>
E5	All regulated waste removed from the site must be removed by a person who holds a current approval to transport such waste under the provisions of the <i>Environmental Protection Act 1994</i>.
E6	Regulated waste must only be removed to a facility licensed under the <i>Environmental Protection Act 1994</i> to receive such waste.

Schedule F: Land	
Condition number	Condition
F1	Preventing contaminant release to land Contaminants must not be released to land in manner which constitutes nuisance, material or serious environmental harm.
F2	Storage and Spillage of Chemicals and Flammable or Combustible Liquids All flammable or combustible liquids must be contained within an on-site containment system and controlled in a manner that prevents environmental harm and maintained in accordance with the current version of AS 1940 - Storage and handling of flammable and combustible liquids.
F3	Spillage of all flammable and combustible liquids must be controlled in a manner that prevents environmental harm.
F4	Topsoil Topsoil must be strategically stripped ahead of exploration activity and stockpiled no more than 2 metres in height to preserve topsoil bio-organic integrity.
F5	Exploration The environmental authority holder is authorised to carry out exploration activities listed in Table 1 (Mining Activities) in and within 500m of any Category B Environmentally Sensitive Area. When carrying out exploration activities in and within 500m of any Category B Environmentally Sensitive Area the holder of the environmental authority must do so in accordance with conditions F6 to F22.
F6	In carrying out exploration activities on mining leases (ML) ML1790 and ML70495, all reasonable and practicable measures must be taken to prevent or minimise the likelihood of environmental harm being caused to any Category B Environmentally Sensitive Area (ESA).
F7	Exploration activities undertaken must be consistent with Figures 1 to 4 attached to this environmental authority.
F8	Exploration activities undertaken must be consistent with Control Strategies as outlined in Section 3 of the Environmental Management Plan for Wards Well, 2012.
F9	The operational area of individual drill sites must not exceed 6400 square metres.
F10	The construction of sumps must not exceed 12 square metres.
F11	Drill holes are to be a maximum of 400mm in diameter.
F12	Existing access and fence line tracks must be used wherever possible. New tracks must be constructed to a width of less than 5 metres.

F13	Authorised track construction involving blade clearing of established ground cover vegetation and/or clearing of mature trees is to be minimised in accordance with condition F12 .
F14	All new tracks are to be recorded with GPS in GDA2020 coordinate system and records kept of their location and made available to the administering authority on request.
F15	Tracks should not be used when soil is saturated and prone to displacement or erosion by vehicle movement.
F16	All equipment such as earthmoving and drilling equipment must be used in a manner which prevents the spread of weeds and minimises unnecessary disturbance of topsoil and ground cover vegetation.
F17	Prior to entering the project area, all vehicles, machinery and equipment must be washed down in accordance with the latest version of the Queensland Department of Primary Industries (or its successor) checklist for clean down procedures.
F18	Campsites must not be established within a Category B Environmentally Sensitive Area or within 500m of a Category B Environmentally Sensitive Area.
F19	Sediment control barriers installed on ML1790 and ML70495 should be made of non-organic material to prevent the spread of weeds. <i>Note: For example, synthetic sediment fencing is to be used.</i>
F20	Rehabilitation of areas disturbed in Category B Environmentally Sensitive Area or within 500m of a Category B Environmentally Sensitive Area must commence as soon as practicable to the extent that erosion impacts are minimised and be completed as soon as practicable but no longer than three (3) months after completion of the disturbance activity.
F21	An annual report must be prepared and submitted with each annual return. The report must include a map showing the location of completed drill holes authorised by this environmental authority and include full details of progressive rehabilitation works completed to demonstrate compliance with condition F20 of this environmental authority. <i>Note: Progressive rehabilitation refers to pad by pad rehabilitation as practical.</i>
F22	Prescribed environmental matters – matters of State environmental significance Impacts to matters of State environmental significant (MSES) as a result of carrying out exploration activities must only occur to the maximum extent stated in Table F1 – Authorised residual impacts to MSES and consistent with general exploration activities depicted in Figure 3 ‘Authorised impacts to MSES Regulated Vegetation’ and Figure 4 ‘Authorised impacts to MSES Protected Wildlife Habitat’ .
F23	All impacts to MSES must be determined, documented, and mapped by an appropriately qualified person.

F24	Records of impacts to MSES in condition F22 must be kept for the life of the environmental authority and include: a) The size and extent of impact; and b) Details about the condition of the MSES (e.g. dominant vegetation and remnant status); and c) A determination of whether the impact is a significant residual impact.
F25	PRCP Schedule Rehabilitation of the disturbed land must be carried out in accordance with the approved Progressive Rehabilitation and Closure Plan (PRCP) schedule for this environmental authority.
F26	Surrender The holder must meet the conditions and rehabilitation milestones under the PRCP schedule prior to the surrender of the environmental authority.

Table F1 'Authorised residual impact to prescribed environmental matters'

Prescribed environmental matters – matter of State environmental significance (MSES)	Location of impact	Offset requirements under Environmental Offsets Act 2014	Maximum extent of impact (ha)
Regulated vegetation – Endangered or Of Concern Regional Ecosystem			
Grassland Regional Ecosystem (11.8.11)	In accordance with Figure 3	No	1.81
Sparse Regional Ecosystem (11.3.4, 11.4.2)	In accordance with Figure 3	No	0
Dense / Mid Dense Regional Ecosystem (11.3.1, 11.9.5)	In accordance with Figure 3	No	0
Regulated Vegetation – Located in the defined distance from the defining banks of a watercourse			
Grassland Regional Ecosystem (11.8.11)	In accordance with Figure 3	No	0
Sparse Regional Ecosystem (11.3.4, 11.4.2)	In accordance with Figure 3	No	0
Dense / Mid Dense Regional Ecosystem (11.3.1)	In accordance with Figure 3	No	0
Protected Wildlife Habitat – Essential habitat for an endangered or vulnerable animal or plant			
<i>Dichanthium queenslandicum</i> (King Blue Grass)	In accordance with Figure 4	No	1.81
Ornamental Snake	In accordance with Figure 4	No	6.45
Protected Wildlife Habitat – A habitat for endangered or vulnerable wildlife or Special Least Concern animal			
Squatter Pigeon	In accordance with Figure 4	No	7.54
Grey Falcon	In accordance with Figure 4	No	1.50
Fork Tailed Swift	In accordance with Figure 4	No	1.50
Koala	In accordance with Figure 4	No	7.15
Greater Glider	In accordance with Figure 4	No	0.88
Short Beaked Echidna	In accordance with Figure 4	No	7.95

Schedule G: Community	
Condition number	Condition
G1	All complaints received must be recorded including investigations undertaken, conclusions formed, and action taken. This information must be made available to the administering authority on request.
G2	The holder of this environmental authority must record the following details for all complaints received and provide this information to the administering authority on request: a) name, address and contact number for complainant (if not available; record 'not identified'); b) time and date of complaint; c) investigations undertaken; d) conclusions formed; e) actions taken to resolve complaint; f) any abatement measures implemented; and g) person responsible for resolving the complaint.
G3	When requested by the administering authority, the environmental authority holder must undertake relevant specified monitoring within a reasonable and practicable timeframe nominated by the administering authority to investigate any complaint of environmental harm at any sensitive place or commercial place. The results of the investigation (including an analysis and interpretation of the monitoring results) and abatement measures implemented must be provided to the administering authority within fourteen (14) days of completion of the investigation.

END OF CONDITIONS

Definitions

Key terms and/or phrases used in this document are defined in this section. Environmental authority holders should note that where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

Accepted engineering standards in relation to dams, means those standards of design, construction, operation and maintenance that are broadly accepted within the profession of engineering as being good practice for the purpose and application being considered. In the case of dams, the most relevant documents would be publications of the Australian National Committee on Large Dams (ANCOLD), guidelines published by Queensland government departments, and relevant Australian and New Zealand Standards.

Acid rock drainage means any contaminated discharge emanating from a mining activity formed through a series of chemical and biological reactions, when geological strata is disturbed and exposed to oxygen and moisture as a result of mining activity.

Administering authority is the agency or department that administers the environmental authority provisions under the *Environmental Protection Act 1994*.

Airblast overpressure means energy transmitted from the blast site within the atmosphere in the form of pressure waves. The maximum excess pressure in this wave, above ambient pressure is the peak airblast overpressure measured in decibels linear (dBL).

Annual exceedance probability or AEP means the probability that at least one event in excess of a particular magnitude will occur in any given year.

ANZECC means the Australian and New Zealand Guidelines for Fresh Marine Water Quality 2000

Appropriately qualified person means a person who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis on performance relative to the subject matter using the relevant protocols, standards, methods or literature.

Assessed or assessment by a suitably qualified and experienced person in relation to a consequence assessment of a dam, means that a statutory declaration has been made by that person and, when taken together with any attached or appended documents referenced in that declaration, all of the following aspects are addressed and are sufficient to allow an independent audit of the assessment:

- a) exactly what has been assessed and the precise nature of that determination;
- b) the relevant legislative, regulatory and technical criteria on which the assessment has been based;
- c) the relevant data and facts on which the assessment has been based, the source of that material, and the efforts made to obtain all relevant data and facts; and
- d) the reasoning on which the assessment has been based using the relevant data and facts, and the relevant criteria.

Authority means an environmental authority or a development approval.

Bed and banks for a waters, river, creek, stream, lake, lagoon, pond, swamp, wetland or dam means land over which the water of the waters, lake, lagoon, pond, swamp, wetland or dam normally flows or that is normally covered by the water, whether permanently or intermittently; but does not include land adjoining or adjacent to the bed and banks that is from time to time covered by floodwater.

Blasting means the use of explosive materials to fracture:

- a) rock, coal and other minerals for later recovery; or
- b) structural components or other items to facilitate removal from a site or for reuse.

Certification or certified by a suitably qualified and experienced person in relation to a design plan or an annual report regarding dams, means that a statutory declaration has been made by that person and, when taken together with any attached or appended documents referenced in that declaration, all of the following aspects are addressed and are sufficient to allow an independent audit at any time:

- a) exactly what is being certified and the precise nature of that certification
- b) the relevant legislative, regulatory and technical criteria on which the certification has been based
- c) the relevant data and facts on which the certification has been based, the source of that material, and the efforts made to obtain all relevant data and facts
- d) the reasoning on which the certification has been based using the relevant data and facts, and the relevant criteria.

Chemical means:

- a) an agricultural chemical product or veterinary chemical product within the meaning of the *Agricultural and Veterinary Chemicals Code Act 1994 (Commonwealth)*; or
- b) a dangerous good under the dangerous goods code; or
- c) a lead hazardous substance within the meaning of the *Workplace Health and Safety Regulation 1997*; or
- d) a drug or poison in the Standard for the Uniform Scheduling of Drugs and Poisons prepared by the Australian Health Ministers' Advisory Council and published by the Commonwealth; or
- e) any substance used as, or intended for use as:
 - i. a pesticide, insecticide, fungicide, herbicide, rodenticide, nematocide, miticide, fumigant or related product; or
 - ii. a surface active agent, including, for example, soap or related detergent; or
 - iii. a paint solvent, pigment, dye, printing ink, industrial polish, adhesive, sealant, food additive, bleach, sanitiser, disinfectant, or biocide; or
 - iv. a fertiliser for agricultural, horticultural or garden use; or
- f) a substance used for, or intended for use for:
 - i. mineral processing or treatment of metal, pulp and paper, textile, timber, water or wastewater; or
 - ii. manufacture of plastic or synthetic rubber.

Commercial place means a work place used as an office or for business or commercial purposes, which is not part of the mining activity and does not include employees accommodation or public roads.

Consequence Category means a category either low, significant or high, into which a dam is assessed as a result of the application of table and other criteria in the *Manual for assessing consequence categories and hydraulic performance of structures*.

Construction or constructed in relation to a dam includes building a new dam and modifying or lifting an existing dam, but does not include investigations and testing necessary for the purpose of preparing a design plan.

Contaminate means to render impure by contact or mixture.

Contaminated means the substance has come into contact with a contaminant.

Contaminant can be

- a) a gas, liquid or solid; or
- b) an odour; or
- c) an organism (whether alive or dead), including a virus; or
- d) energy, including noise, heat, radioactivity and electromagnetic radiation; or
- e) a combination of contaminants.

Dam means a land-based structure or a void that contains, diverts or controls flowable substances, and includes any substances that are thereby contained, diverted or controlled by that land-based structure or void and associated works.

Design plan is a document setting out how all identified consequence scenarios are addressed in the planned design and operation of a regulated structure.

Design storage allowance or DSA means the minimum storage required in a dam at the first of November each year in order to meet the hydraulic performance requirements.

Disturbance of land includes:

- a) compacting, removing, covering, exposing or stockpiling of earth;
- b) removal or destruction of vegetation or topsoil or both to an extent where the land has been made susceptible to erosion;
- c) carrying out mining within a watercourse, waterway, wetland or lake;
- d) the submersion of areas by tailings or hazardous contaminant storage and dam/structure walls;
- e) temporary infrastructure, including any infrastructure (roads, tracks, bridges, culverts, dam/structures, bores, buildings, fixed machinery, hardstand areas, airstrips, helipads etc.) which is to be removed after the mining activity has ceased; or
- f) releasing of contaminants into the soil, or underlying geological strata.

However, the following areas are not included when calculating areas of disturbance:

- a) areas off lease (e.g. roads or tracks which provide access to the mining lease);
- b) areas previously disturbed which have achieved the rehabilitation outcomes;
- c) by agreement with the administering authority, areas previously disturbed which have not achieved the rehabilitation objective(s) due to circumstances beyond the control of the mine operator (such as climatic conditions);
- d) areas under permanent infrastructure. Permanent infrastructure includes any infrastructure (roads, tracks, bridges, culverts, dam/structures, bores, buildings, fixed machinery, hardstand areas, airstrips, helipads etc.) which is to be left by agreement with the landowner; or
- e) disturbance that pre-existed the grant of the tenure.

Effluent means treated waste water released from sewage treatment plants.

Environmental authority means an environmental authority granted in relation to an environmentally relevant activity under the *Environmental Protection Act 1994*.

Environmental authority holder means the holder of this environmental authority.

Environmentally relevant activity means an environmentally relevant activity as defined under section 18 of the *Environmental Protection Act 1994*.

Flowable substance means matter or a mixture of materials that can flow under any conditions potentially affecting that substance. Constituents of a flowable substance can include water, other liquids fluids or solids, or a mixture that includes water and any other liquids fluids or solids either in solution or suspension.

General waste means waste other than regulated waste.

Hazard in relation to a dam as defined, means the potential for environmental harm resulting from the collapse or failure of the dam to perform its primary purpose of containing, diverting or controlling flowable substances.

Hydraulic performance means the capacity of a regulated dam to contain or safely pass flowable substances based on the probability (AEP) of performance failure specified for the relevant hazard category in the *Manual for assessing consequence categories and hydraulic performance of structures* .).

Infrastructure means water storage dams, roads and tracks, buildings and other structures built for the purpose of mining activities but does not include other facilities required for the long-term management of mining impacts or the protection of potential resources. Such other facilities include dams, waste rock dumps, voids, or ore stockpiles and buildings as well as other structures whose ownership can be transferred and which have a residual beneficial use for the next owner of the mining leases or the background land owner.

L_{A10}, adj, 10 mins means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 10% of any 10 minute measurement period, using Fast response.

L_{A1}, adj, 10 mins means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 1% of any 10 minute measurement period, using Fast response.

Land in the “land schedule” of this document means land excluding waters and the atmosphere.

Mandatory reporting level or MRL means a warning and reporting level determined in accordance with the criteria in the *Manual for Assessing Consequence Categories and Hydraulic Performance of Structures (Version 4, 10 April 2014)* (EM635) published by the administering authority.

Mature trees means any tree relevant to the tenure that is classified as a commercial sized tree by the *Code of Practice for Native Forest Timber Production 2002*

mg/L means milligrams per litre.

Native vegetation means vegetation that occurs naturally in a certain area.

Mining operations authorised activities-

- a) Including mine construction, resource extraction, mineral processing, mine site management, rehabilitation and decommissioning.
- b) Excluding exploration activities detailed in the current ERC.
 - i. Exploration activities do not include activities involved in the combined bulk sampling area.

Operational land means the land associated with the project for which this environmental authority has been issued.

Peak particle velocity or ppv means a measure of ground vibration magnitude which is the maximum rate of change of ground displacement with time, usually measured in millimetres/second (mm/s).

Progressive rehabilitation means rehabilitation (defined below) undertaken progressively or a staged approach to rehabilitation as mining operations are ongoing.

Receiving environment, in relation to an activity that causes or may cause environmental harm, means the part of the environment to which the harm is, or may be, caused. The receiving environment includes (but is not limited to):

- a) a watercourse;
- b) groundwater;
- c) land; and
- d) sediments.

Receiving waters means the waters into which this environmental authority authorises releases of mine affected water.

Regulated dam means any dam in the significant or high hazard category as assessed using the *Manual for assessing consequence categories and hydraulic performance of structures*

Regulated waste is defined in the *Environmental Protection Regulation 2019*.

Rehabilitation means the process of reshaping and revegetating land to restore it to a stable landform and in accordance with the acceptance criteria set out in this environmental authority and, where relevant, includes remediation of contaminated land.

Representative means a sample set that covers the variance in monitoring or other data due to either natural changes or operational phases of the mining activities.

Saline drainage is the movement of waters, contaminated with salt(s), as a result of the mining activity.

Scheme fund means the scheme fund established under section 24 of the *Mineral and Energy Resources (Financial Provisioning) Act 2018*.

Self-sustaining means an area of land which has been rehabilitated and has maintained the required acceptance criteria without human intervention for a period nominated by the administering authority.

Sensitive place means:

- a) a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
- b) a motel, hotel or hostel; or
- c) an educational institution; or
- d) a medical centre or hospital; or
- e) a protected area; or
- f) a public park or gardens.

Sewage means the used water of persons to be treated at a sewage treatment plant.

Stable in relation to land, means land form 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.

Stormwater means all surface water runoff from rainfall.

Suitably qualified and experienced person in relation to dams means one who is a Registered Professional Engineer of Queensland (RPEQ) under the provisions of the Professional Engineers Act 2002, OR registered as a National Professional Engineer (NPER) with the Institution of Engineers Australia, OR holds equivalent professional qualifications to the satisfaction of the administering authority for the Act; AND the administering authority for the Act is satisfied that person has knowledge, suitable experience and demonstrated expertise in relevant fields, as set out below:

- a) knowledge of engineering principles related to the structures, geomechanics, hydrology, hydraulics, chemistry and environmental impact of dams
- b) a total of five years of suitable experience and demonstrated expertise in at least four of the following categories, with the 'geomechanics of dams' category being compulsory:
 - i. geomechanics of dams with particular emphasis on stability, geology and geochemistry
 - ii. investigation, design or construction of dams
 - iii. operation and maintenance of dams
 - iv. hydrology with particular reference to flooding, estimation of extreme storms, water management or meteorology
 - v. hydraulics with particular reference to sediment transport and deposition, erosion control, beach processes
 - vi. hydrogeology with particular reference to seepage, groundwater
 - vii. solute transport processes and monitoring thereof
 - viii. dam safety

The Act means the *Environmental Protection Act 1994*.

Waste as defined in section 8AA of the *Waste Reduction and Recycling Act 2011*

Waste and resource management hierarchy has the meaning given by section 9 of the *Waste Reduction and Recycling Act 2011*.

Water quality means the chemical, physical and biological condition of water.

Waters includes all or any part of a river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water in natural or artificial watercourses, bed and banks of a watercourse, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater.

µg/L means micrograms per litre.

µS/cm means microsiemens per centimetre.

END OF DEFINITIONS

Figure 1: Location of Exploration and Mineral Development Activities

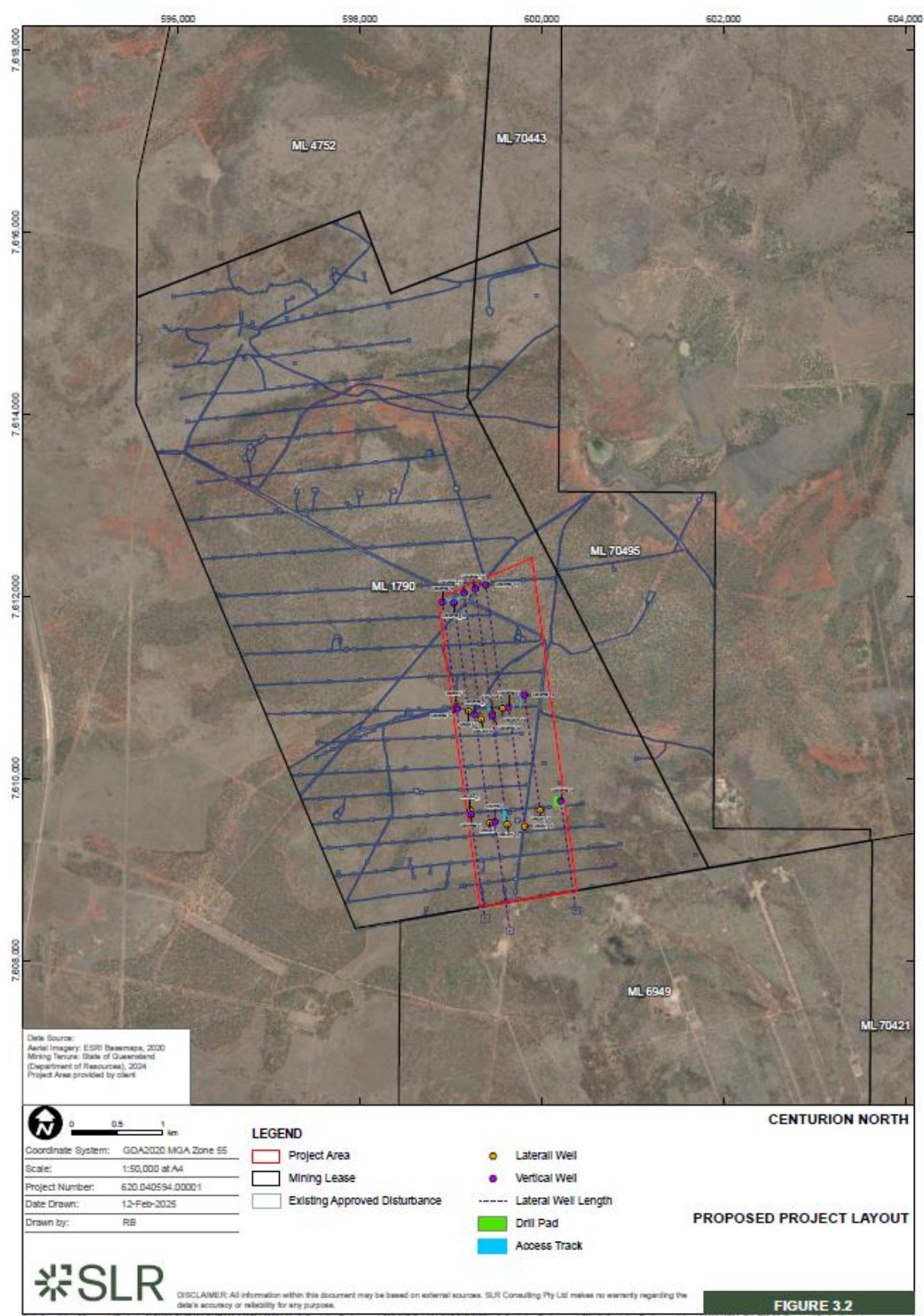


Figure 2: Wards Well Mining Tenements

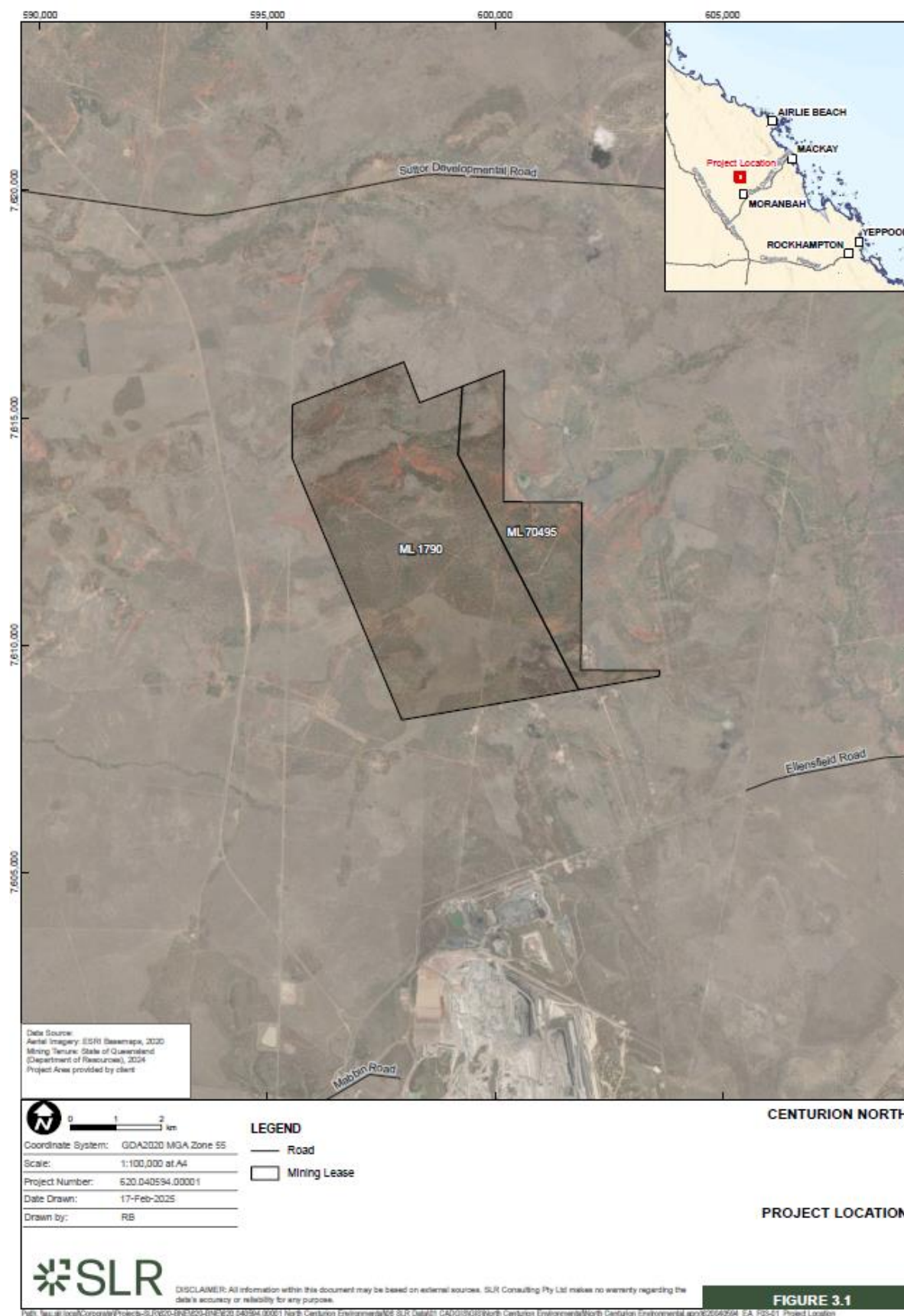


Figure 3: Authorised impacts to MSES Regulated Vegetation

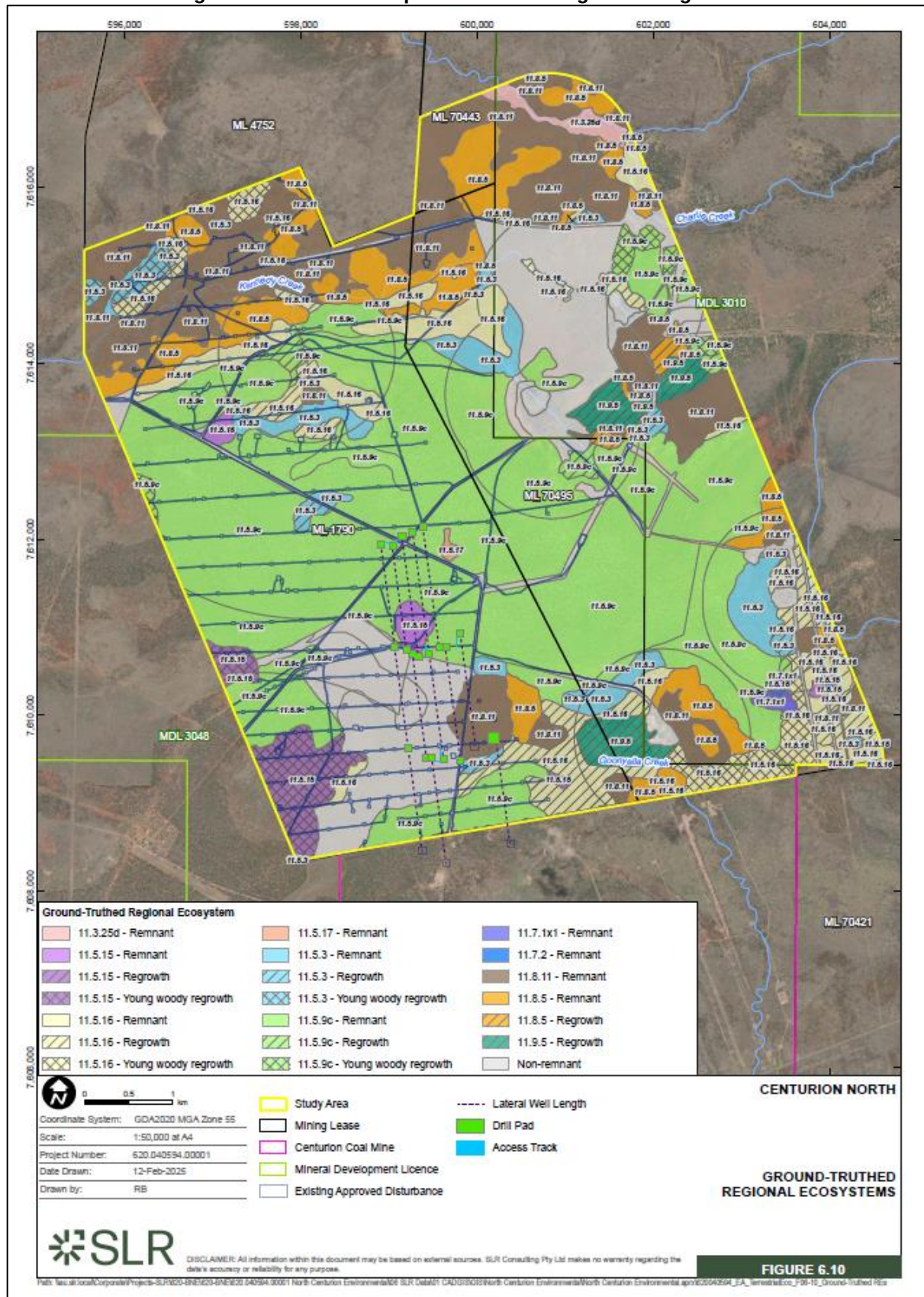
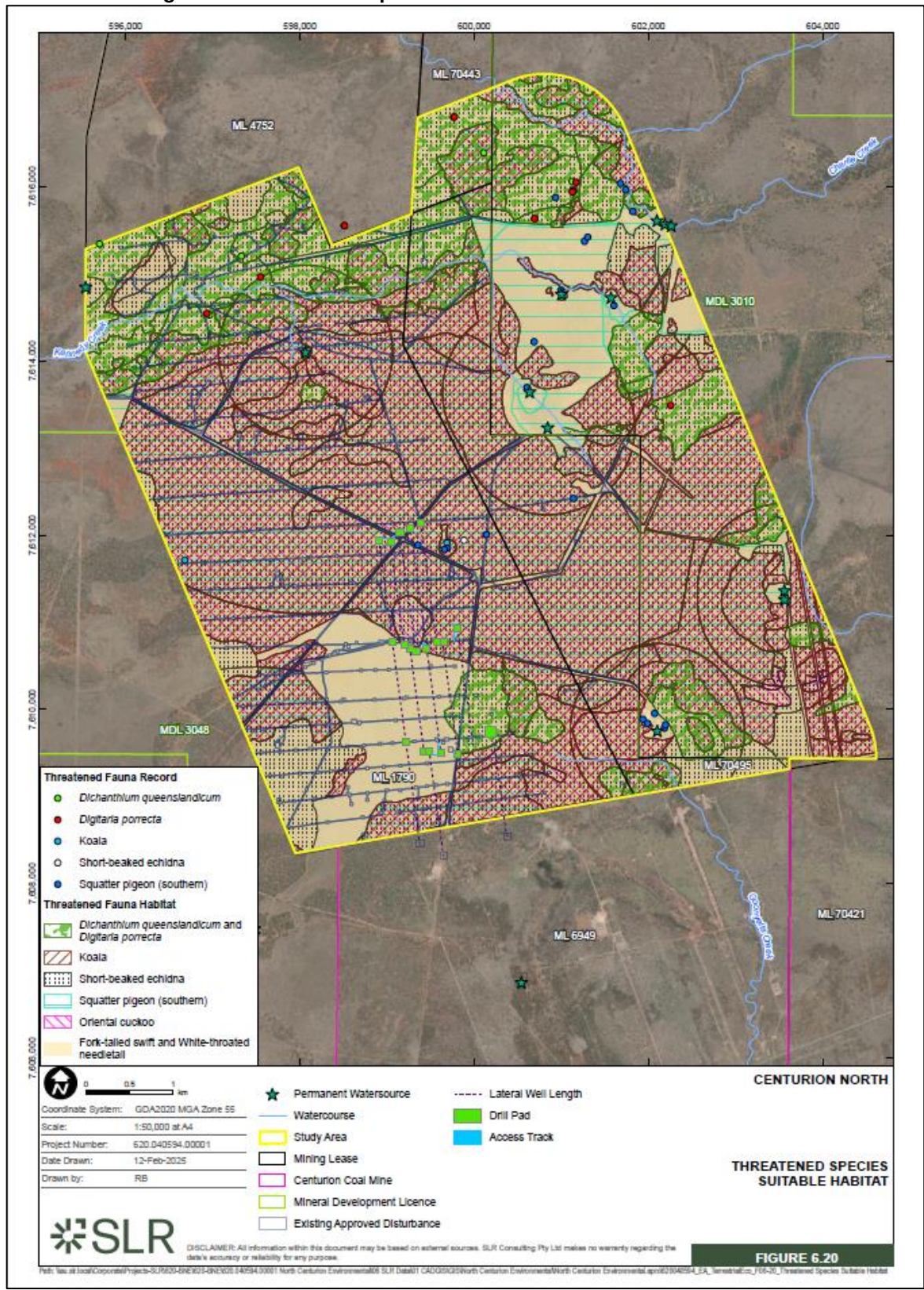


Figure 4: Authorised impacts to MSES Protected Wildlife Habitat



END OF ENVIRONMENTAL AUTHORITY