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Appendix E

# Mitigation measures table

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**Table E.1**      **Proposed mitigation measures**

**Reference   Management measures**

Traffic and transport	
T1	Quarry transport operations will continue to be managed in accordance with the <i>Gunlake Quarry Traffic Management Plan</i> (Gunlake 2020c), including the appended Truck Driver Code of Conduct. This plan will be reviewed and updated as required following approval of the Continuation Project.
T2	Gunlake are in discussions with the road authority, Goulburn Mulwaree Council, regarding any future road upgrades and the inspection and renewal program.
T3	Gunlake will continue to meet its obligations under Section 7.11 development contributions to Goulburn Mulwaree Council for the life of the Quarry.
Noise and vibration	
NV1	Quarry noise operations will continue to be managed in accordance with the <i>Gunlake Quarry Noise and Blast Management Plan</i> (Gunlake 2020d). This plan will be reviewed and updated as required following approval of the Continuation Project.
NV2	Noise and vibration monitoring will continue as described in the <i>Gunlake Quarry Noise and Blast Management Plan</i> (Gunlake 2020d). This plan will be reviewed and updated as required following approval of the Continuation Project.
NV3	Voluntary acquisition rights will continue to apply at R2 in accordance with the <i>Voluntary Land Acquisition and Mitigation Policy</i> .
Air quality	
AQ1	Quarry operations will continue to be managed in accordance with the <i>Gunlake Quarry Air Quality Management Plan</i> (Gunlake 2020e). This plan will be reviewed and updated as required following approval of the Continuation Project.
AQ2	Air quality monitoring will continue as described in the <i>Gunlake Quarry Air Quality Management Plan</i> (Gunlake 2020e).
Groundwater	
G1	Quarry operations will continue to be managed in accordance with the <i>Gunlake Quarry Soil and Water Management Plan</i> (Gunlake 2020b). This plan will be reviewed and updated as required following approval of the Continuation Project.
G2	Groundwater monitoring will continue as described in the <i>Gunlake Quarry Soil and Water Management Plan</i> (Gunlake 2020b). The monitoring results will be compared to the drawdown predictions in the Groundwater Assessment throughout the life of the quarry and two years after closing to determine if the actual drawdown it is less than or similar to the predicted drawdown. The seep monitoring program will be scaled back to only monitor seep 7.
G3	Gunlake Quarry will obtain a WAL(s) for the maximum predicted groundwater take over the lifespan of the Continuation Project (up to 68 ML/year).
Surface water	
SW1	Quarry operations will continue to be managed in accordance with the <i>Gunlake Quarry Soil and Water Management Plan</i> (Gunlake 2020b). This plan will be reviewed and updated as required following approval of the Continuation Project.
SW2	Surface water quality monitoring will continue as described in the <i>Gunlake Quarry Soil and Water Management Plan</i> (Gunlake 2020b). This plan will be reviewed and updated as required following approval of the Continuation Project.
Biodiversity	
B1	Quarry operations will continue to be managed in accordance with the <i>Gunlake Quarry Rehabilitation and Biodiversity Offset Management Plan</i> (Gunlake 2015). This plan will be reviewed and updated as required following approval of the Continuation Project. This includes the progressive rehabilitation of quarry areas where practicable and the rehabilitation of the Quarry following its closure.
B2	Biodiversity offset requirements of the Extension Project Approval will be met.

**Table E.1 Proposed mitigation measures**

Reference	Management measures
B3	A variation to EPBC Approval 2015/7557 will be sought to vary the existing conditions of approval to reflect the Continuation Project development approval.
Aboriginal heritage	
AH1	Quarry operations will continue to be managed in accordance with the <i>Gunlake Quarry Aboriginal Heritage Management Plan</i> (EMM 2020). This plan will be reviewed and updated as required following approval of the Continuation Project.
Soil, land capability and rehabilitation	
LRR1	Quarry operations will continue to be managed in accordance with the <i>Gunlake Quarry Rehabilitation and Biodiversity Management Plan</i> (Gunlake 2015). This plan will be reviewed and updated as required following approval of the Continuation Project.
LRR2	Gunlake will undertake ongoing rehabilitation monitoring throughout and beyond the operation of the Continuation Project. Areas being rehabilitated will be regularly inspected and assessed against the short and long-term rehabilitation objectives outlined above. Where rehabilitation success appears limited, maintenance activities will be initiated. Further, should areas of excessive erosion and sedimentation be identified, remedial works will be undertaken.
Hazards	
H1	Gunlake Quarry operates under a <i>Pollution Incident Response Management Plan</i> (Gunlake 2021), which is implemented in the event of an incident. The Continuation Project would continue to operate in accordance with this plan.
Social and economic	
S1	Gunlake will continue to implement a preferential approach to hiring which prioritises employment of workers with relevant skills residing within the local area, then the regional area, followed by hiring outside of these areas.
S2	Gunlake will, wherever possible and practical, work with the Marulan Chamber of Commerce, local businesses, and the local community to prioritise and use local goods and services.
S3	Gunlake will work with local employment, apprenticeship and training agencies to enhance the potential of hiring of local and regional workers thereby minimising the need to hire workers from outside of the local and regional areas.
S4	Gunlake will communicate with residents within a 2 km radius who are not already registered to advise them of the blasting notification procedure and enable them to register, if interested. Gunlake will also continue to liaise with other quarries in the area with the intention of addressing potential cumulative noise and vibration impacts from blasting to minimise the potential impact collectively.
S5	Gunlake will continue to provide community support in the form of annual contributions, funding and grants to organisations within the local and regional area where need is determined.
S6	Gunlake will continue to actively engage with the local community and affected individuals and groups and address any complaints and feedback on quarry operations.
S7	Gunlake will maintain existing relationships with local emergency services to ensure that any accessibility impacts related to demand on emergency services are identified and communicated early and consistently, including ongoing provision of Project updates to emergency services and updating emergency response protocols and procedures in consultation with emergency services, as required due to any flagged service capacity issues.
Visual	
V1	Gunlake will continue to consult with surrounding landowners regarding the visual amenity of the Quarry and will implement any reasonable additional controls to further reduce their visual impact if necessary.
Historical heritage	
HH1	<i>The Gunlake Quarry Aboriginal Heritage Management Plan</i> (EMM 2020) includes an unexpected finds protocol which will be implemented should an artefact/item/site of potential historical heritage be found.