

Aspect	Approved	Proposed
Quarry Life	13 November 2022	13 November 2047
Excavation Area	2 ha	5 ha
Disturbance Area	Refer to Figure 13 of the EIS: <ul style="list-style-type: none"> • Processing and Stockpile Area – 7 ha • Work Area 1 – 47 ha 	Refer to Figure 13 of the EIS: <ul style="list-style-type: none"> • Processing and Stockpile Area – 7 ha • Work Area 1 – 47 ha • Work Area 2 – 35 ha
Rate of Production	Up to 150,000 tonnes per annum	Up to 500,000 tonnes per annum
Deposit	1.87 m	Additional 12.5 m
Quarrying Method	Truck and Excavator	No change to the general quarrying method. <ul style="list-style-type: none"> • Single pit • Increase in mobile movement • No blasting activities proposed
Target Geology	Total excavation depth will be 8.0 – 9.5 m with maximum excavation depth being approximately 4 – 5 m below water level	Alluvium excavated to the depth of the bedrock (5 – 14 m).
Operational Hours	Quarrying Operation and Processing: <ul style="list-style-type: none"> • Monday to Friday - 5:00 am to 12:00 am • Saturdays - 5:00 am to 1:30 pm • No quarrying operation or processing on Sundays or Public Holidays 	No change in operational hours. Construction of internal haulage road and processing undertaken during standard working hours <ul style="list-style-type: none"> • Monday to Friday - 7:00 am to 6:00 pm • Saturdays - 8:00 am to 1:00 pm
Workforce	12 employees	No Change
Infrastructure	<ul style="list-style-type: none"> • ATCO offices with staff amenities and parking facilities • Storage shed • Workshop • Weighbridge • Roads • Access via a private haul road off the Golden Highway 	Continued use of existing infrastructure and additional: <ul style="list-style-type: none"> • Realignment of haul road in the southern part of Work Area 2

Processing Infrastructure	<ul style="list-style-type: none"> • Mobile processing plant (x2) • Fixed plant (x2) for screening and processing • Total stockpile capacity up to 30,000 tonnes (maximum height 5 m) 	<p>Continued use of existing infrastructure and additional:</p> <ul style="list-style-type: none"> • New sand washing treatment plant • Total stockpile capacity up to 60,000 tonnes (maximum height 6 m)
Tailings Management	<ul style="list-style-type: none"> • Reject material will be returned to the extraction area for shaping, topsoiling, and revegetation 	<ul style="list-style-type: none"> • One (1) tailings dams will be partially rehabilitated • Construction of a new Tailings Dam within Work Area 1 • A proposed water treatment plant will be located close to the processing plant and will remove excess water from tailings prior to deposition
Product Transport	<ul style="list-style-type: none"> • 40 truckloads per day (average weight between 27-33 tonnes) 	<ul style="list-style-type: none"> • 60 truckloads per day or 120 trip movements (A-Doubles with a capacity of 50 tonnes)
Public Road	Golden Highway intersection at access point upgraded to RMS requirements in 2010.	Continued use of Golden Highway intersection. No upgrade is proposed.
Rehabilitation	<ul style="list-style-type: none"> • Final landform will be between 2 – 3 m lower than ground level • Final land use – 140m x 30m dam in Stage 2 area 	<ul style="list-style-type: none"> • Final landform will be 2 m above mean Hunter River level • Progressive rehabilitation • Final land use – grazing land
Offsets	None	<ul style="list-style-type: none"> • Credit obligations for Green and Golden Bell Frog and Southern Myotis
Water Management	<p>Water Management System comprised generally of</p> <ul style="list-style-type: none"> • Northern pond • Collection Pond • Diversion drains • Levee banks • Earth bunding 	<p>Upgrade of the existing water management system including:</p> <ul style="list-style-type: none"> • Realignment of a western drain to direct runoff to the Northern Pond • Modification of Collection Pond/channel system to transfer water between

		<p>Northern Pond and Process Plant</p> <ul style="list-style-type: none">• Extension of the existing flood levee located to the south• Extension of the existing earth bund located to the north
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