

Template

Proposal Content Document

Table 1: General proposal content description

Proposal title	Lamb Creek Iron Ore Project
Proponent name	Process Minerals International (PMI) a wholly owned subsidiary of Mineral Resources Limited (MinRes) (ACN 118 549 910)
Short description	<p>Open pit iron ore mine located approximately 130 Km northwest of Newman (Figure 2-1) to produce up to 10 million tonnes per annum (Mtpa) of crushed and screened iron ore over a period of three to five years. This will include a multi-stage crushing and screening (two or three stages) process plant and associated mine infrastructure. This includes but is not limited to site offices, maintenance and equipment service area, water pipelines, workshops, hardstands, fuel storage, power generation, telecommunications and accommodation village for site personnel. The total disturbance footprint of the proposal is 650 ha (Indicative Footprint; IF), within a Development Envelope of 881 ha (Figure 2-1)</p> <p>Iron ore product will be loaded onto road trains and transported 16 km on a dedicated private haul road to its intersection with Great Northern Highway, where it will be transported 320 km to ship load-out facilities at the Utah Point berth in Port Hedland.</p>

Table 2: Proposal content elements

Proposal element	Location / description	Maximum extent, capacity or range
Physical elements		
Development Envelope (DE)	Figure 2-2	881 ha
Indicative Footprint (IF)	Figure 2-2	650 ha
Mining and Processing elements including, but not limited to: <ul style="list-style-type: none">• Open Pit,• internal haul roads,• ROM Pad,• Waste Rock Landform,• Processing facilities,• water storage dam,	Figure ES2	Clearing of no more than 650 ha within the 881 ha Development Envelope

<ul style="list-style-type: none"> • laydown/hardstands, • ore stockpiles, • top soil stockpiles <p>Infrastructure elements including, but not limited to:</p> <ul style="list-style-type: none"> • Accommodation camp, • light vehicle roads • Workshops, • power supply infrastructure, • fuel/hydrocarbon storage, • potable water storage, • waste disposal; and, • sewage treatment and disposal. 		
Transport Corridor, including borrow areas along the road alignment	Figure ES2	Mine site to Great Northern Highway - 16 km haul road, clearing of no more than 168 ha within the Development Envelope
Operational elements		
Pit Dewatering	Figure ES2	In-pit sumps, estimated flow rates to vary during pit development from 17 to 58 L/s (water used on site)
Groundwater Abstraction	Figure ES2	Preliminary estimate of up to 950 ML/yr water requirement to be obtained from production bores and in-pit sumps for use on site.
Waste Disposal	Figure ES2	Maximum of 2500 tpa of non-hazardous waste disposed at on-site landfill (landfill cells within waste rock landform; WRL) Hazardous wastes transported for off-site disposal/treatment at licensed premises
Power Supply	Figure ES2	Average demand 1,880 kW (peak 3,460 kW) On-site generation with built-in redundancy (multiple units on operating or standby duty)
Greenhouse Gas Emissions		
Construction elements:		
Scope 1	Total greenhouse gas emissions for Year 2: 61,086 tCO ₂ -e/yr	

Scope 2	None, all electricity generated on-site and is accounted for in Scope 1
Scope 3	Total greenhouse gas emissions for Year 4: 164,168 tCO ₂ -e/yr
Operation elements:	
Scope 1	Annual greenhouse gas emissions for Year 1: 46,065 tCO ₂ -e/yr
	Average annual greenhouse gas emissions for Year 2-5 41,273 tCO ₂ - e/yr
Scope 2	None, all electricity generated on-site and is accounted for in Scope 1
Scope 3	Annual greenhouse gas emissions for Year 1: 34,761 tCO ₂ -e/yr
	Average annual greenhouse gas emissions for Year 2-5: 142,132.75 tCO ₂ -e/yr
Rehabilitation	
<p>The Proponent will implement a Mine Closure Plan (MCP) in accordance with <i>Mine Closure Plan Guidance – How to prepare in accordance with Part 1 of the Statutory Guidelines for Mine Closure Plans</i>. Progressive rehabilitation will be undertaken over the life of the mine, with progressive backfilling of the pit occurring during all three stages of pit development, to at least 1 m above the pre-mining water table.</p> <p>Areas disturbed through implementation of the Proposal will be designed to be safe and non-polluting and constructed so that final shape, size, stability and ability to support local native vegetation are comparable to natural landforms in the area.</p>	
Commissioning	
<p>The forecast key milestones for construction and commissioning are:</p> <ul style="list-style-type: none"> • Construction Q1 2023 to Q3 2023 • Commence commissioning Q3 2023 • Ramp up operations from Q4 2023 to Q1 2024 <p>The construction completion and commissioning will be sequenced as per the following stages:</p> <ul style="list-style-type: none"> • Stage 1 – Construction verification • Stage 2 – Pre commissioning or functional testing • Stage 3 – No load commissioning • Stage 4 – Load commissioning • Stage 5 – Performance verification 	
Decommissioning	
<p>The Proposal is wholly situated on the Juna Downs pastoral lease (LPL N050471). When operation ceases it is expected that the Proposal land will return to pastoral activities. Some domains will require additional closure management in the short term or permanently to ensure the end land use can be safely and effectively achieved.</p> <p>Immediately following decommissioning, land use will be “mine site rehabilitation” until ecosystems have demonstrated sufficient resilience and satisfy closure objectives and completion criteria.</p>	

Rehabilitated WRLs and the partially backfilled open pit will be permanent landscape features; however, the size and location of the final landforms may be altered, subject to the nature and extent of future mining campaigns

Other elements which affect extent of effects on the environment

Proposal time*	Maximum project life	3 to 5 years
Construction phase	Construction phase	Approximately 12 months (including early works and construction from overlapping approvals)
Commissioning phase (including commissioning and ramp-up)	Commissioning	Approximately 3 months
	Operations ramp up	Approximately 3 months
Operational phase	Operating days	Up to 365 operational days per year over 3 to 5 years, up to 24 hours per day

** Proponents should only provide realistic timeframes to avoid unnecessary change to proposal applications at referral (section 38C), assessment (section 43A) or post assessment (section 45C).*