

Atlas Project

Proposal Content Document

Table 1: General proposal content description

Proposal title	Atlas Project
Proponent name	Image Resources NL
Short description	<p>Image Resources NL is seeking to develop a greenfields mineral sands project, located at Nambung, approximately 18 km east of Cervantes in the Wheatbelt region of Western Australia.</p> <p>The proposal includes the progressive development of mine pits, processing facilities, groundwater bores and water management infrastructure, temporary waste stockpiles, solar drying ponds and associated infrastructure (power supply, communications, workshop, laydown, offices, accommodation camp etc.).</p>

Table 2: Proposal content elements (proposed changes in **bold**)

Proposal element	Location / description	Original Proposal	Current Proposal	Proposed Change
Physical elements				
Mine Development Envelope <ul style="list-style-type: none"> Open cut mine pits; Temporary topsoil/ waste stockpiles; Processing facilities; Solar drying ponds; and Supporting infrastructure. 	Figure 1, Figure 2	Disturbance of no more than 450 ha within the 981 ha Mine DE, including no more than 372 ha of native vegetation.	Disturbance of no more than 302 ha within the 457 ha Mine Development Envelope, including no more than 292 ha of native vegetation clearing.	Disturbance of no more than 274.8 ha within the 457 ha Mine Development Envelope, including no more than 272.2 ha of native vegetation clearing.
External Infrastructure Development Envelope <ul style="list-style-type: none"> Transport infrastructure upgrades; Accommodation Camp; and One or more extraction bore/s and associated pipeline corridors. 	Figure 1, Figure 2	Disturbance of no more than 56 ha within the 56 ha External Infrastructure DE, including no more than 24 ha of native vegetation.	Disturbance of no more than 70 ha within the 70 ha External Infrastructure Development Envelope, including no more than 26 ha of native vegetation clearing.	Disturbance of no more than 28.8 ha within the 37.8 ha External Infrastructure Development Envelope, including no more than 16.2 ha of native vegetation clearing.

Construction elements				
Pit dewatering	Superficial aquifer		Dewatering of up to 1.1 GL/yr	No change
Operational elements				
Heavy Mineral Concentrate (HMC) production	Figure 2 (WCP)		Production of up to 250 ktpa of HMC	No change
HMC storage	Figure 2 (HMC Pad)		Short term stockpiling of up to 30 kt HMC prior to haulage for export.	No change
Mining method	Figure 2 (Pit)		Dry mining	No change
Pit dewatering	Superficial aquifer		Dewatering of up to 0.75 GL/yr	No change
Groundwater abstraction	Yarragadee, Eneabba and/or Lesueur Aquifer		Abstraction of up to 2.2 GL/yr from one or more borefields.	No change
Power generation	Onsite diesel generators (potentially supplemented/replaced by grid or renewable generation)		Approximately 2-3 MW	No change
Proposal elements with greenhouse gas emissions				
Construction elements:				
Scope 1			Land use change – vegetation clearing: < 22 kt CO ₂ -e Plant, equipment: < 2 kt CO ₂ -e Power generation: < 7 kt CO ₂ -e Maximum of 31 kt CO ₂ -e	No change
Operation elements:				
Scope 1			Land use change – vegetation clearing: < 35 kt CO ₂ -e/yr Plant, equipment: < 5 kt CO ₂ -e/yr Power generation: < 15 kt CO ₂ -e/yr Maximum of 55 kt CO ₂ -e/yr Maximum over life of Proposal: 165 kt CO ₂ -e	No change

Rehabilitation				
			<p>Rehabilitation and closure will be progressive and in accordance with the Mine Closure Plan.</p> <p>Mining pits will be progressively filled and rehabilitated to pre-mining profile with the pre-existing land use reinstated as mining advances.</p>	No change
Commissioning				
			Commissioning of the processing facility to be undertaken subject to operational limits above.	No change
Decommissioning				
			Removal of all process related infrastructure within 12 months of cessation of operations (excluding periods of care and maintenance).	No change
Other elements which affect extent of effects on the environment				
Proposal time	Maximum project life		5 years	No change
	Construction phase		12 months	No change
	Operations phase		3 Years	No change
	Decommissioning phase		12 months	No change