

COUGAR SANDS

Proposal Content Document

Table 1: General proposal content description

Proposal title	COUGAR SANDS PIT EXTENSION
Proponent name	COUGAR SANDS
Short description	<p>The proposal is to expand the existing sand mining operations on Lot 1001 Lake Clifton Road, Lake Clifton. The sand will be used as a source of high PRI fill sand for use in subdivisions, industrial areas and developments in the Peel Region and some limestone for fill.</p> <p>The resource consists of around 20 – 30 metres of sand overlying limestone.</p> <p>The proposal consists of:</p> <ul style="list-style-type: none"> • Extension of the current sand excavations by 21.53 hectares. • Excavation to depths of 20 – 30 metres of high PRI sand. • Excavation of 10 – 20 metres of basal limestone • Clearing of 21.53 ha of native vegetation in generally “Excellent” Vegetation Condition. • Use of the existing bitumen access road from Lake Clifton Road. • Initially use portion of the existing pit for limited screening of sand to remove root and organic matter, by mobile screening plant and potentially limestone crushing and screening. • Subsequent use of the pit extension for the location of the mobile processing plant. • Continued use of existing facilities on site, such as site office, ablutions and hardstand. • Rehabilitation to local native vegetation.

Table 2: Proposal content elements

Proposal element	Location / description	Maximum extent, capacity or range
Physical elements		
Pit Extension	Figure 2	<p>Sand and limestone pit extension with a maximum area of 21.53 hectares and total depth of up to 45 metres.</p> <p>Excavation to a 3 metre separation to the highest known water table.</p> <p>Operational time frame of 20 years of which excavation is anticipated to take 10 years with 5 years plus years of closure and rehabilitation.</p>

Construction elements		
Clearing	Figure 2	Progressive clearing of 21.53 ha of native vegetation over an anticipated ten year time frame
Operational elements		
Existing pit access and hardstand	Figure 2	Access and hardstand for Initial location of mobile screening plant for sand and crushing and screening plant for limestone. When there is sufficient room in the pit the mobile screening and crushing plant will be moved to the pit.
Existing pit facilities	Figure 2	Use of support facilities of site office, ablutions, access road and hardstand over an area of 16.42 hectares
Crushing and screening	Figure 2	Annual screening of sand 25,000 tonnes per year for 8 years. Crushing and screening of limestone, if required, 100,000 per year for 5 years.
Existing bore	Figure 2	2,000 kL per year.
Proposal elements with greenhouse gas emissions		
Construction elements:		
Clearing of vegetation	790.15 tonnes based on energy used and breakdown of cleared vegetation.	
Operation elements:		
Excavation of sand and limestone and ancillary activities for life of operations	20 year life of mine (excavation, processing and ancillary activities); 3,683.3 t CO ₂ -e	
Rehabilitation		
<p>Progressively closed and rehabilitated as new ground is opened.</p> <p>Return to local native vegetation to complement Yalgorup National Park.</p> <p>Ceding of a large parcel of native vegetation to State to add to Yalgorup National Park and a wildlife corridor along the northern portion of Lot 1001 to link Land Clifton to the Peel Harvey wetlands.</p>		
Commissioning		

Commissioning will consist of clearing the native vegetation progressively, recovering the vegetation and topsoil for use in restoration of the completed sand excavation.

Tree hollows and “Stag” trees will be recovered and installed in rehabilitated areas.

Existing pit access and support facilities will be used.

Decommissioning

Progressive closure and reformation of the excavated surface to match local adjoining landforms.

Return to safe, stable, sloping, non polluting surface with reconstructed soils suited to the growth of local native species that replicate the existing and adjoining natural native vegetation.

Other elements which affect extent of effects on the environment

Proposal time*	Maximum project life	20 years depending on market.
	Construction phase	Nil
	Operations phase	15 years depending on market demands with an anticipated 10 years of excavation.
	Decommissioning phase	Progressively during the life of the operations and for 5 plus years post closure.

** 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).*

Figure 1. Development Envelope

Figure 2. Proposed Pit Expansion and Proposal Elements