



GIDJI III TSF & CLOSURE PLANNING

KCGM is proposing to construct a new Tailings Storage Facility (TSF) at its Gidji Gold Processing Plant site (Gidji).

Gidji is located approximately 17 km north of Kalgoorlie-Boulder. Initially constructed in 1988 as a satellite roasting site, Gidji treats refractory sulphide ore concentrate from the Fimiston Processing Plant using ultra fine grind technology.

The Gidji III TSF Project will comprise construction of a new single cell TSF (Gidji III TSF) to provide sufficient tailings storage capacity to accommodate KCGM's life of mine plan which requires total storage capacity of 4.25 Million tonnes (Mt). The existing Gidji II TSF has less than 1 Mt remaining capacity and is expected to be exhausted by late 2021.

Construction of the additional TSF will allow KCGM's mining and processing operations to continue uninterrupted until at least 2035; providing ongoing economic and employment benefits to the City of Kalgoorlie-Boulder.

Environmental Assessment

Potential environmental impacts from the proposed project have been assessed to determine if construction and operation of the Gidji III TSF and clearing of additional native vegetation would cause any significant detrimental effects to the environment.

The project will require increasing the approved Development Envelope by 35 hectares for TSF and associated infrastructure and 32 hectares for Closure Stockpiles (e.g. topsoil) to support mine closure.

Clearing of native vegetation within the Development Envelope will be required for the TSF, access roads, perimeter fencing, contractor laydown yards stormwater management infrastructure and topsoil stockpiles etc.

Baseline environmental assessments indicate that the proposal is unlikely to result in any significant additional or different impacts to the environment. All the vegetation associations proposed for clearing are common and widespread throughout the region.

No impacts to conservation significant flora, vegetation or fauna will occur as a result of implementing the Gidji III TSF Project.

TSF Design.

The Gidji III TSF has been designed to the relevant codes and guidelines including the Department of Mines, Industry Regulation and Safety Code of Practice 2013 (DMIRS 2013) and the Australian National Commission on Large Dams Guidelines 2012 (ANCOLD 2012).

In addition, the design of the facility includes a composite high-density polyethylene (HDPE) and clay liner. A similar design was used for the Gidji II TSF and has been effective in preventing seepage and potential contamination of underlying soil and groundwater.

Groundwater monitoring is routinely undertaken in accordance with Prescribed Premises Licence L5946/1988/13 administered by the Department of Water and Environmental Regulation (DWER).

Regulatory Approvals

KCGM will be seeking approval from the DWER and the DMIRS in accordance with the *Environmental Protection Act 1986* and the *Mining Act 1978*.

Further Information

If you have questions or concerns regarding the Gidji III TSF Project please contact the KCGM Public Interaction Line on 9022 1100.