

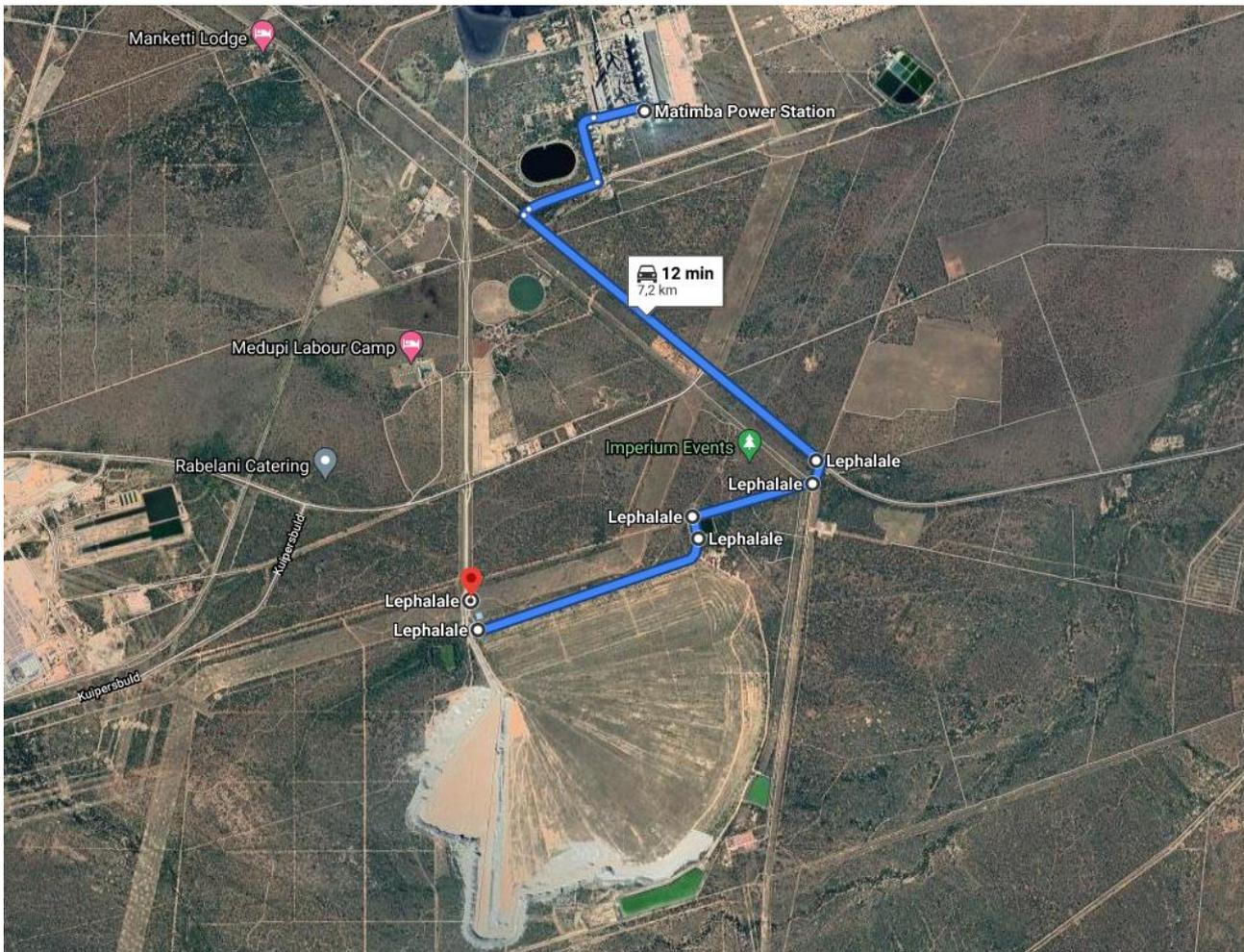
## PART 4: SITE INFORMATION

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## PART 4: SITE INFORMATION

### 1. General description

The Matimba Ash Dump Facility is located approximately 13km west of the town of Lephalale along Nelson Mandela Drive within the Limpopo Province of South Africa. More specifically, the ash dump is located approximately 5,5km south of the Matimba Power Station and adjacent east of the Medupi Power Station. Three water reclamation dams are located south, east, and north of existing ash dump. Below is a image showing the location of the entrance to Matimba Ash Dump relative to Matimba Power Station.



The planned extension of the ash dump covers a surface area of approximately 400ha. The Site is flat and slopes towards the South-East, with a fall in elevation from 900m above mean sea level (amsl) to 875m amsl in the South-East corner of the open site. Most of this area is fenced off and kept intact as a nature reserve, seen to host natural vegetation and wildlife. Vegetation comprises a typical arid bushveld with a loose sandy topsoil/ colluvium soil cover. The boundaries of the investigated area have been defined by the client, which excludes the south-western corner due to the presence of a natural non-perennial stream and drainage feature. Several smaller dams and channels were noted during fieldwork and serve as water sources for the wildlife in the reserve. Gravel roads were created running east-west and north-south dividing the site into subsequent blocks.

## **2. Existing buildings, structures, and plant & machinery on the Site**

The Matimba Ash Dump Facility infrastructure is inclusive but not limited to the following: existing Ash Dump, three pollution control dams, concrete lined channels, energy dissipating structures and existing offices and workshop with services.

Details of the existing Ash Dump Infrastructure are given in Matimba Ash Dump Project – Detailed Design Report.

## **3. Subsoil information**

A soil berm and channel were constructed towards the south-western corner of the ash dump to direct surface runoff into the southern reclamation dam. The area next to the western wall of the existing ash dam advance were cleared of vegetation and stripped of topsoil and transported soil up to bedrock or very dense material (mostly ferricrete) to accommodate the current ash load. Portions of this area were not accessible due to the soil berm. High voltage powerlines run along the northern and western boundaries of the site.

Bedrock outcrop of sandstone/ conglomerate with shallow soil conditions (up to 0,4m thick) occurs within the central western and eastern portions of the site and comprises coarse grained soft to medium hard rock sandstone tending to conglomerate in places. Deeper ferruginous soils are located throughout the rest of the site.

The existing ash dump is covered by a loose sandy topsoil and overgrown by natural vegetation comprising grasses, short shrubs and trees resembling a savannah biome.

## **4. Hidden services**

No hidden services are previously identified to be within the construction footprint. The contractor is to inform the client of any services encountered. Potential risk of hidden services should be confirmed. Precautionary measures include Contractor conducting scans/ (excavation permit) prior to excavations.

## **5. Other reports and publicly available information**

All documentation the tendering contractor may need to be able to decide his method of working and programme and prepare for activities are listed below. The following shall also supplement Sections 1 through 4 of C4 ECC3 Site Information.

- Matimba Ash Dump Project – Technical Specifications
- Matimba Ash Dump Project – Detailed Design Report
- Matimba Ash Dump Project – Quality Control Manual
- Matimba Ash Dump – O and M Manual
- Matimba Ash Dump – Liner Interface Testing Results
- Matimba Power Station Existing Area Water Use Licence 07/A42J/GECI/5726
- Matimba Power Station Ash Dump Geotechnical Report
- Matimba Ash Dump List of Drawings 301-00825-01-100 Rev 3
- Matimba Ash Dump Environmental Authorization (EA) and Water Use License (WUL) issued for the construction of the ADF
- Matimba ash Dump Environmental Impact Assessment
- Matimba Ash Dump EMP
- Department of Water and Sanitation, Technical Advisory Note: Construction Quality Assurance for Water Conservation and Pollution Control Barrier Systems.