

Summary of the proposed CEMP & EMPr Changes

Date: July 2022

Prepared by

Environmental Department

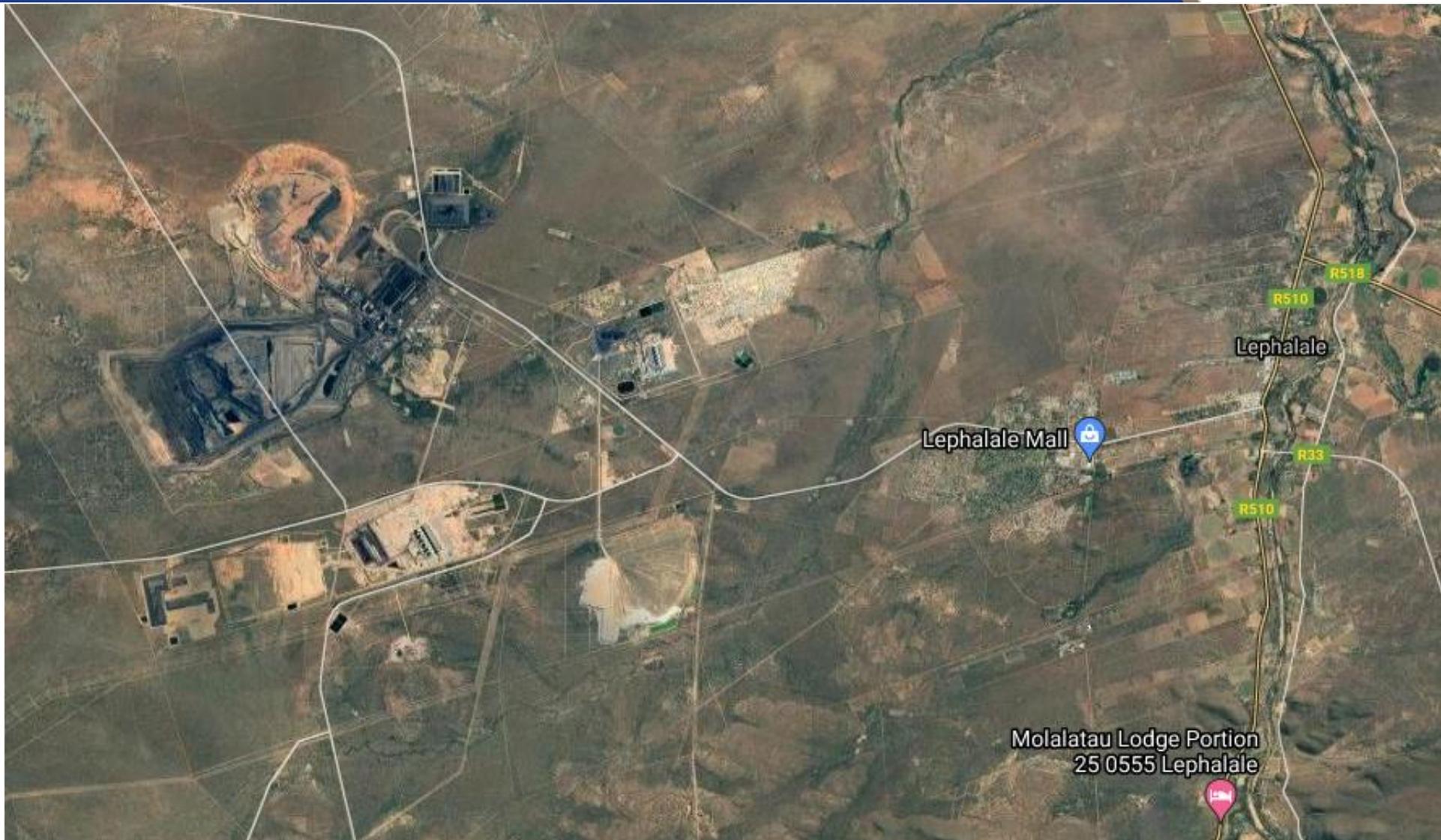
- Eskom Holdings (SOC) Limited main objective is to provide energy and related services, including the generation, transmission, distribution and supply of electricity. In order to be able to adequately provide for the growing electricity demand, Eskom proposed to construct a new Medupi Power Station and associated infrastructure (including a coal stockpile) in the Lephalale area. Record of Decision Ref: 12/12/20/695, September 2006. Water Use Licence for the facility (01/A1042H/ABCEFGI/5213 Version:01-2020 and 01/A1042/ABCEFGI/5213 & 07/A42H/IIG/6425 Sept. 2021) was also obtained from the DWS.
- Due to delays in the commissioning of the power station, a need to establish additional coal stockyard to accommodate coal supplied from Exxaro's Grootegeluk Mine was identified. This coal stockyard was proposed within the footprint of the authorised Ash Dump and was authorised by the DFFE in July 2012 (Ref No. 14/12/16/3/1/531).
- Excess Coal Stockyard (Coal Stockyard at the Ash Dump Footprint) is located on the western portion of the north ash dump required additional pollution control dams for containment of storm water. Eskom then applied and issued with Environmental Authorisation in June 2014 (14/12/16/3/2/666). Additional Water Use Licence for the dams was also acquired from DWS (07/A42H/IIG/6425 Version:01-2020).

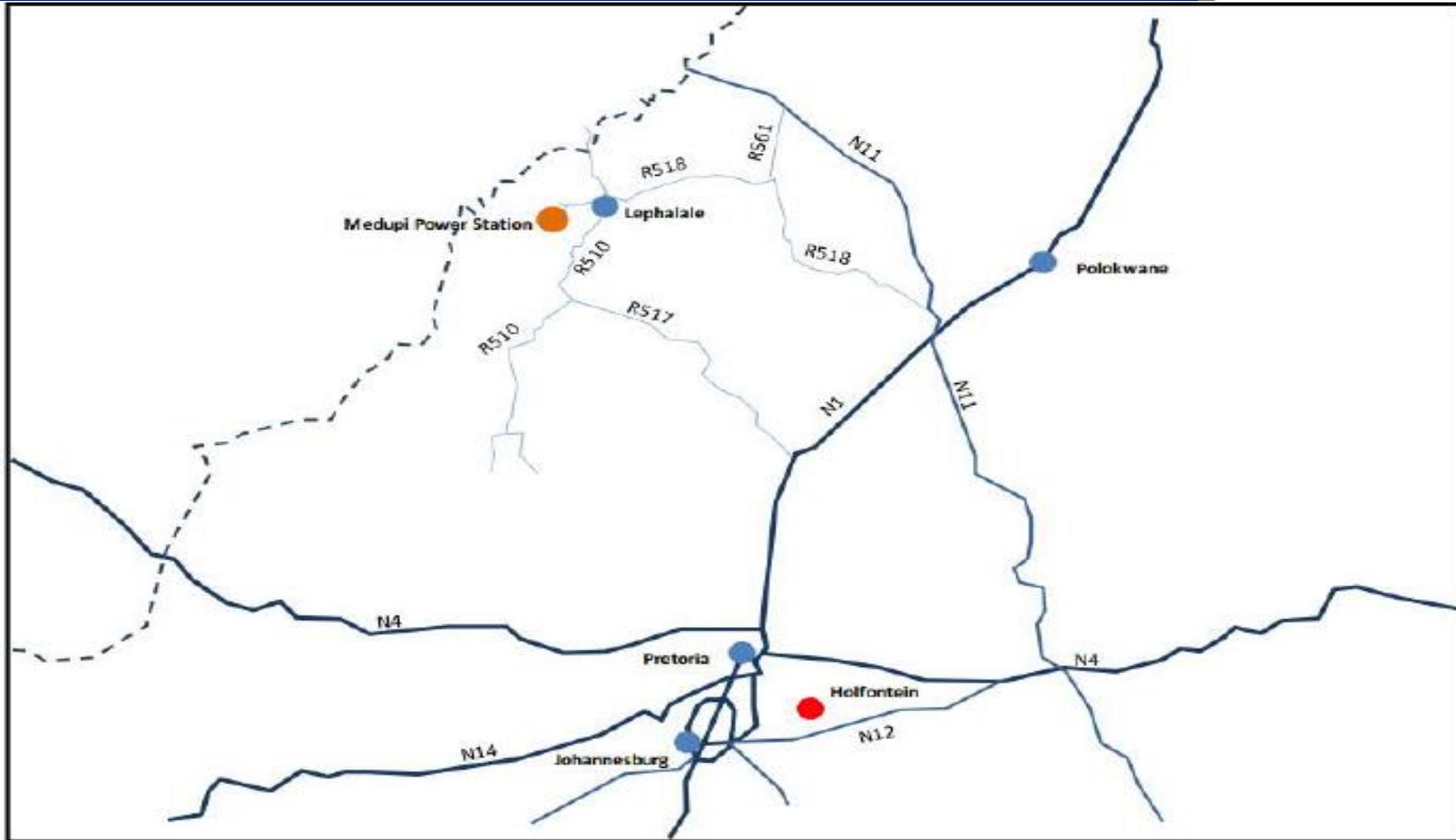
Project Location

Medupi Coal Fired Power Station is located on farms Naauw Ontkomen 509 LQ, Eenzaamheid 687 LQ and Kuipersbult 511 LQ, in Lephalele Local Municipality, Ward 2, Waterberg District Municipality, within Limpopo Province.



Project Location Cont.





EMPR FOR THE ESTABLISHMENT OF A COAL STOCKYARD ON THE ASH DUMP SITE

DFFE REF:14/12/16/3/3/1/531

EMPr for the Establishment of a coal Stockyard on the Ash Dump Site, Ref: 14/12/16/3/3/1/531



EMPr for the Establishment of a coal Stockyard on the Ash Dump Site, Ref: 14/12/16/3/3/1/531

Page No.	EMPr Section Heading and Sub-heading	Current condition	Proposed changes	Comments/Reason
P25 and P26	Section 5.3. Control runoff, soil erosion & degradation, and the prevention of contamination of surface water	Erosion control measures: run-off attenuation on slopes (sand bags, logs), silt fences, stormwater catch-pits, shade nets, or temporary mulching over denuded areas. Surface structures such as swales and berms can also be used	In addition to the current conditions, it is proposed that the following condition be endorsed: Paddocks on top of the excess coal stockyard as outlined in the Design Report Ref: E009-00 REP 01 r0 djbfJM ECSY Phase 2 dated 29 May 2015 should be established to minimise suspended solids from running off the footprint and into the stormwater drainage system	To cover paddocks in the EMPr
P30	Section 6.2. Management of possible ground and surface water contamination	Ensure the maintenance of the systems in place for the separation of clean and dirty runoff; surface water controls; sloping topography to prevent ponding; and monitoring groundwater levels and quality		

**CONSTRUCTION ENVIRONMENTAL MANAGEMENT
PLAN REV 3, 2022**

DFFE REF NO. 12/12/20/695

Proposed CEMP and EMPr Changes Cont.



Construction Environmental Management Plan, Ref No. 12/12/20/695, Rev 3, 2022

Page No.	EMP Section Heading and Sub-heading	Current condition	Proposed changes	Comments/Reason
P44	4.12. Environmental Specification: Fauna	No feeding of wildlife. No domestic animals are to be brought onto the site	No feeding of wildlife outside formal wildlife management programme. No domestic animals are to be brought onto site except for purpose of security and rodents/vermin	Eskom encountered a challenge with regard to management of cat's populations at the Station and has implemented Cat Management Programme. Dogs are also brought to site for security control
P57	4.17. Environmental Specification: (Solid) Waste Manage.	Stockpiled waste must not remain on site for longer than 30 days	Stockpiled waste must not remain on site for longer than 18 months	Aligning to the requirements stipulated on Regulation 6(4) of the Waste Classification and Management Regulations, GNR 634 of 2013. In addition to allow Eskom and its contractors to accumulate volumes that are cost effective to transport.

**Environmental Management Programme for
the Proposed Pollution Control Dams and
Associated Infrastructure at Medupi Power
Station Ash Dump & Coal Stockyard**

DFFE Ref No. 14/12/16/3/3/3/93

Environmental Management Programme for the Proposed Pollution Control Dams and Associated Infrastructure at Medupi Power Station Ash Dump & Coal Stockyard, DEA Ref No. 14/12/16/3/3/3/93

Page No.	EMPr Section Heading and Sub-heading	Current condition	Proposed changes	Motivation/Reason
P23	<p>5.2 Objectives for Operation and Maintenance –</p> <p>OBJECTIVE: Management of possible groundwater contamination</p>	<p>Mitigation: Action/control Establish 6 dedicated monitoring boreholes to track groundwater quality changes as a result of the PCD's.</p> <p>Performance/Indicator/Monitoring</p> <p>It is recommended that the existing groundwater quality monitoring program be continued. The dedicated monitoring boreholes around the ash dump area and relevant surface infrastructure that was installed during the drilling program should be included in the program. The boreholes have been constructed such that they can be used to reliably monitoring groundwater quality changes in the area. Chemical elements that should be analysed for include: pH, Electrical Conductivity (EC), Alkalinity (Alk), Chloride (Cl), Sulphate (SO4), Nitrate (NO3), Ammonium (NH4), Phosphate (PO4), Fluoride (F), Calcium (Ca), Magnesium (Mg), Sodium(Na), Potassium (K), Aluminium (Al), Iron (Fe), Manganese (Mn), Total Chromium (Cr), Copper (Cu), Nickel (Ni), Zinc (Zn), Cobalt (Co), Cadmium (Cd) and Lead (Pb)</p>	<p>Eskom Holdings (SOC) Limited shall monitor ground water resources quality by taking samples at the monitoring points as directed by the Department of Water and Sanitation: Limpopo Regional Office</p>	<p>Aligning to the requirements stipulated in the Medupi PS Water Use Licence, Department of Water and Sanitation's requirements and Plume Model Report</p>

