



**Generation**

Gert Sibande District Municipality  
Corner of Joubert & Oosthuise Streets  
Ermelo  
2350

**Attention:**

Ms T Mogakabe

AND

Directorate: Air Quality Management Services  
The Chief Director:  
Mr Vumile Senene  
Department of Environmental Services  
Private Bag X447  
PRETORIA  
0001  
Tel: (012) 310 3263  
Fax: (012) 320 0488

**Date: 2026/04/13**

Enquires: Nomasonto Nsibande

☎ +27 17 779 8995

[NsibanN@eskom.co.za](mailto:NsibanN@eskom.co.za)

Enquiries: Thabo Monjta

☎ +27 779 8834

[MontjaT@eskom.co.za](mailto:MontjaT@eskom.co.za)

**Total number of pages:**

**9**

**Total number of Annexes:**

**GROOTVLEI POWER STATION**

Atmospheric Emission License GPS/0015/2024/F04

\_\_\_\_\_  
**BOILER ENGINEERING MANAGER**

2026/04/13

\_\_\_\_\_  
**DATE**

\_\_\_\_\_  
**ENGINEERING MANAGER**

14/04/2026

\_\_\_\_\_  
**DATE**

\_\_\_\_\_  
**ENVIRONMENTAL MANAGER**

2026/04/16

\_\_\_\_\_  
**DATE**

## GROOTVLEI POWER STATION MONTHLY EMISSIONS REPORT

Atmospheric Emission License: GPS/0015/2015/F02



### 1 RAW MATERIALS AND PRODUCTS

Raw Materials and Products	Raw Material Type	Units	Max Permitted Consumption Rate	Consumption Rate Mar-2026
	Coal	Tons	650 000	95 994
	Fuel Oil	Tons	20 000	660.850
Production Rates	Product / By-Product Name	Units	Max Production Capacity Permitted	Indicative Production Rate Mar-2026
	Energy	GWh	892.800	153.978
	Ash	Tons	300 000	24 142.466
	RE Ash	kg/MWh	not specified	0.028

Note: Max energy rate = AEL capacity [1,200 MW] × 24 hrs × days in month ÷ 1,000 (to convert to GWh).

## 2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristic	Units	Stipulated Range	Monthly Average Content
CV Content	MJ/kg	18-24 (MJ/kg)	20.280
Sulphur Content	%	< 1.46 (%)	0.710
Ash Content	%	24.7 to < 38.1 (%)	25.150

## 3 EMISSION LIMITS (mg/Nm<sup>3</sup>)

Associated Unit/Stack	Daily Limit		
	PM	SO <sub>2</sub>	NO <sub>x</sub>
North	100	3500	1100
South	100	3500	1100

## 4 ABATEMENT TECHNOLOGY (%)

Associated Unit/Stack	Technology Type	FFP Efficiency
North	Fabric Filter Plant (FFP)	99.980%
South	Fabric Filter Plant (FFP)	Off-line

Note: The FFP does not have a bypass mode; therefore, it operates at 100% utilization.

## 5 DATA RELIABILITY (%)

Associated Unit/Stack	PM	SO <sub>2</sub>	NO	O <sub>2</sub>
North	100.0	0.0	0.0	0.0
South	Off	Off	Off	Off

Note: NO<sub>x</sub> emissions are measured as NO in PPM. The final NO<sub>x</sub> value is expressed as total NO<sub>2</sub> equivalent.

## 6 EMISSION PERFORMANCE

Table 6.1: Monthly tonnages for March 2026

Associated Unit/Stack	PM (tons)	SO <sub>2</sub> (tons)	NO <sub>x</sub> (tons)
Unit 1	2.1	341	130
Unit 2	2.2	682	260
Unit 3	Off	Off	Off
Unit 4	Off	Off	Off
Unit 5	Off	Off	Off
Unit 6	Off	Off	Off
<b>SUM</b>	<b>4.27</b>	<b>1 024</b>	<b>390</b>

Table 6.2: PM AEL Daily Compliance - March 2026

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm <sup>3</sup> )
North	31	0	0	0	0	4.4
South	Off	Off	Off	Off	Off	Off
<b>SUM</b>	<b>31</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	




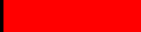
Table 6.3: SO<sub>2</sub> AEL Daily Compliance - March 2026

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm <sup>3</sup> )
North	31	0	0	0	0	1 223.2
South	Off	Off	Off	Off	Off	Off
<b>SUM</b>	<b>31</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

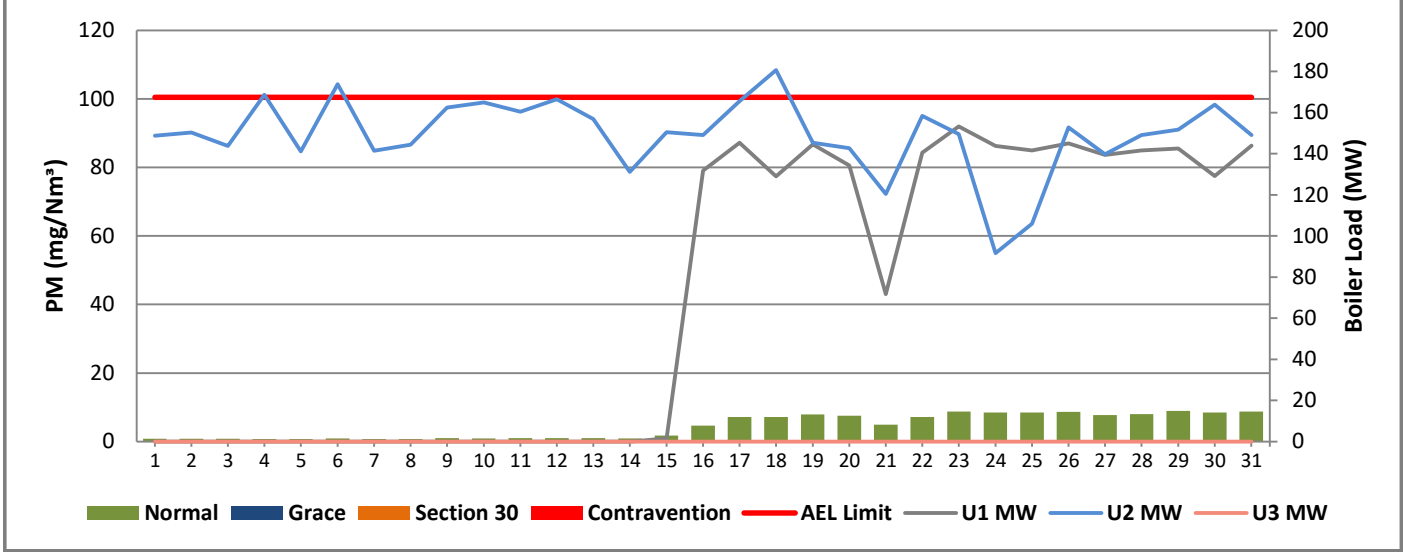
Table 6.4: NO<sub>x</sub> AEL Daily Compliance - March 2026

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm <sup>3</sup> )
North	31	0	0	0	0	466.5
South	Off	Off	Off	Off	Off	Off
<b>SUM</b>	<b>31</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

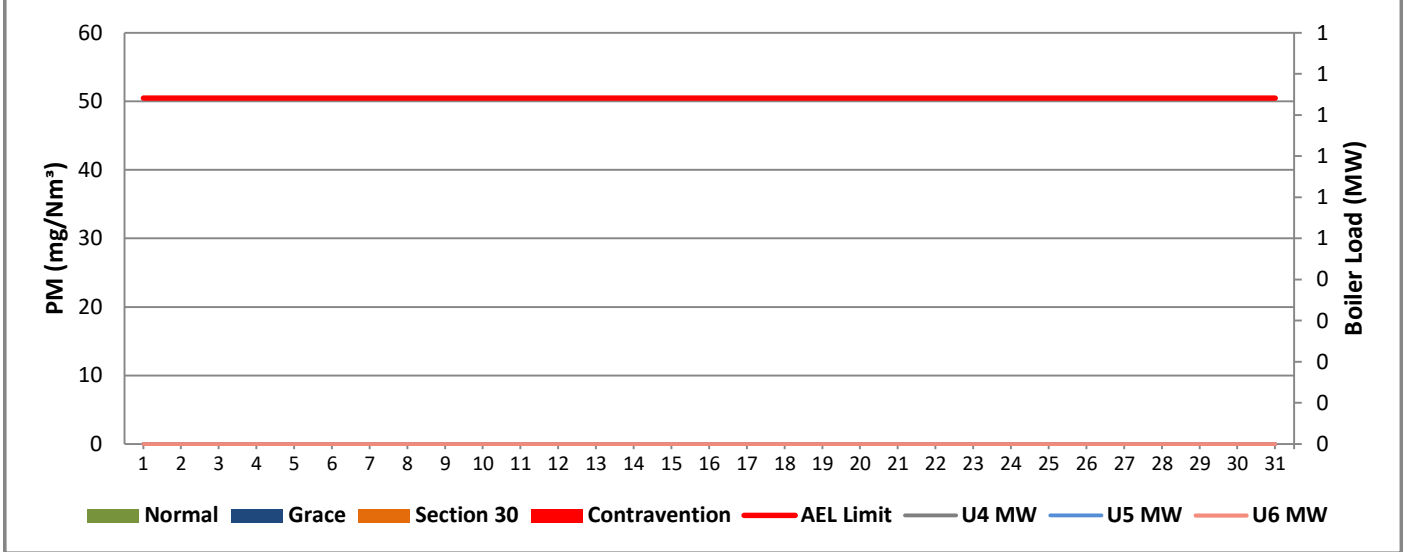
Table 6.5: Legend Description

Condition	Colour	Description
Normal		Emissions below Emission Limit Value (ELV)
Grace		Emissions above the ELV during grace period
Section 30		Emissions above ELV during a NEMA S30 incident
Contravention		Emissions above ELV but outside grace or S30 incident conditions

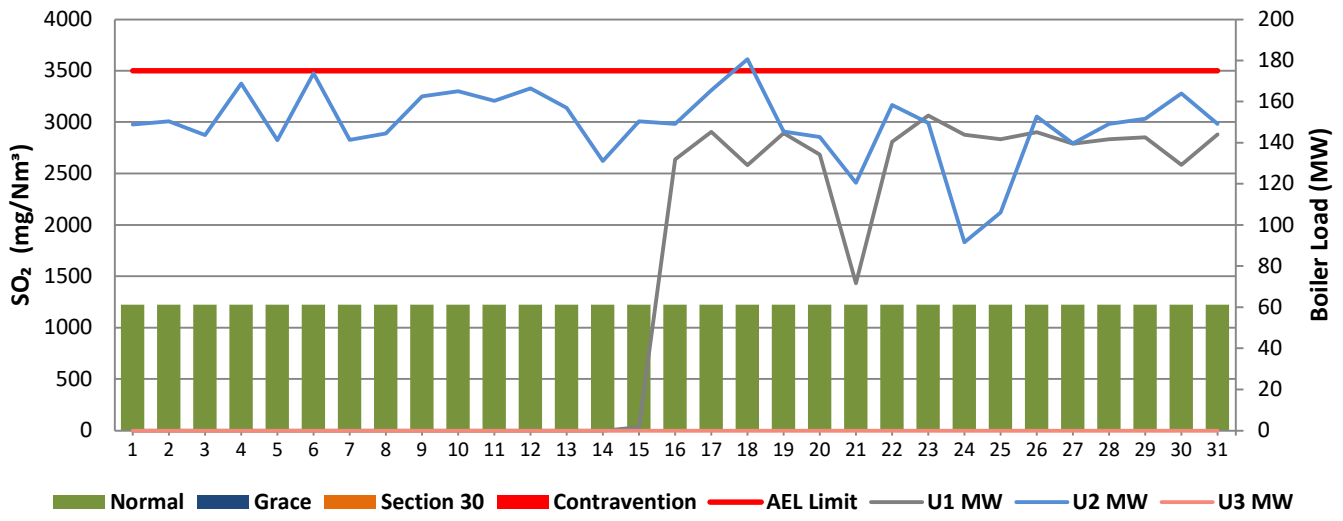
**Figure 1: Grootvlei North Stack PM Emissions - March 2026**



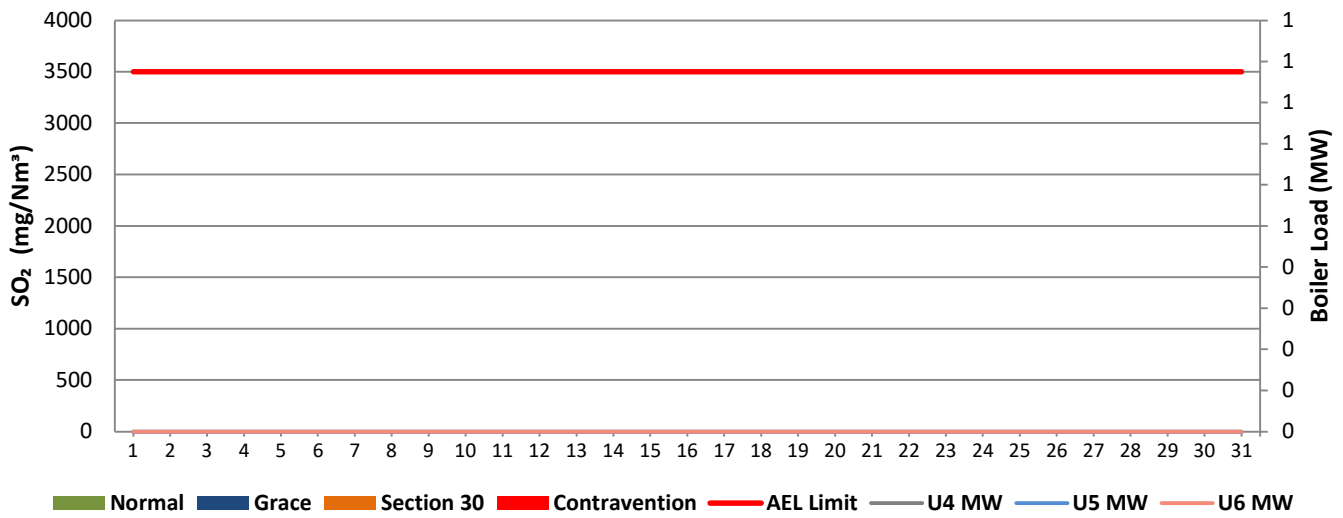
**Figure 2: Grootvlei South Stack PM Emissions - March 2026**



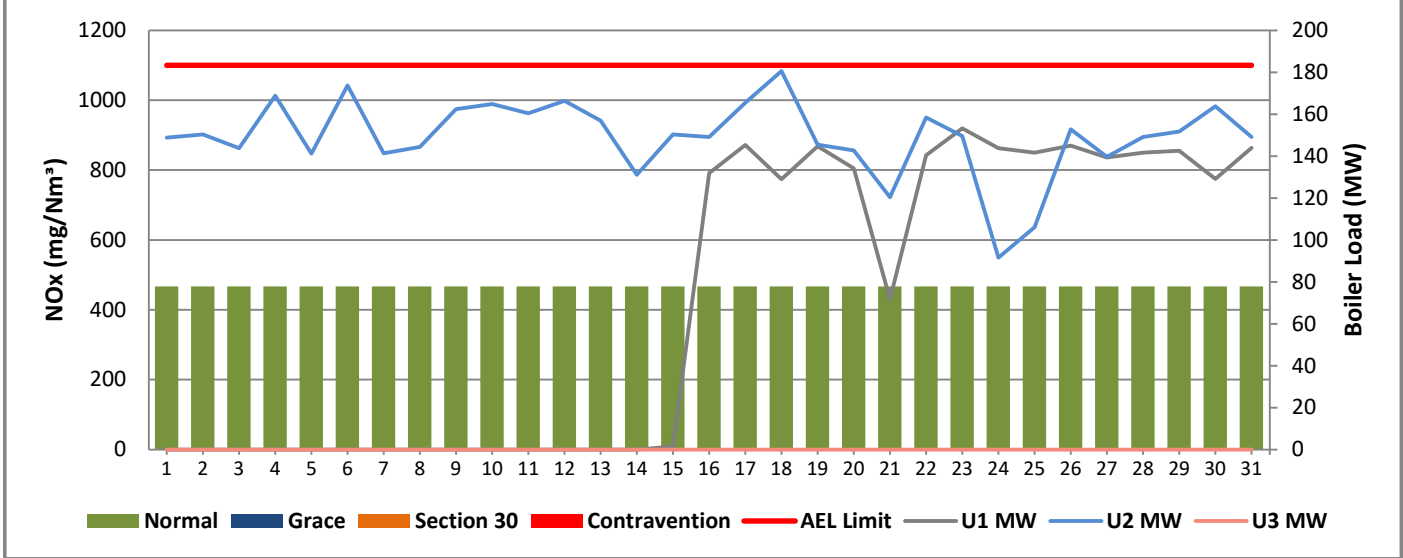
**Figure 3: Grootvlei North Stack SO<sub>2</sub> Emissions - March 2026**



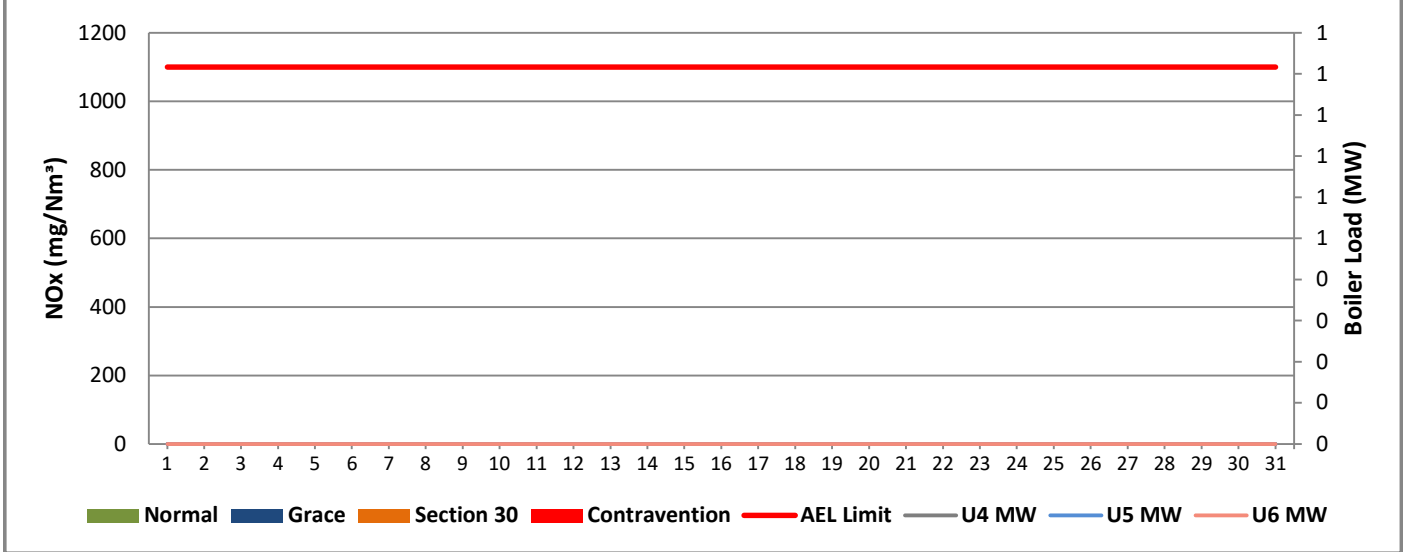
**Figure 4: Grootvlei South Stack SO<sub>2</sub> Emissions - March 2026**



**Figure 5: Grootvlei North Stack NO<sub>x</sub> Emissions - March 2026**



**Figure 6: Grootvlei South Stack NO<sub>x</sub> Emissions - March 2026**



## 7 COMPLAINTS

There were no complaints for this months

Source Code / Name	Root Cause Analysis	Calculation of Impacts / emissions associated with	Dispersion modeling of pollutants where	Measures implemented to prevent reoccurrence

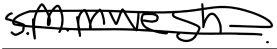
## 8 GENERAL

South Stack offline as unit 4,5 &6 are on extended cold reserved.

For gaseous reporting surrogate values were used as gas analyser was not working and access to inaccessible due to issues with lift hence the zero reliability of gaseous monitors. Lift were fixed and full correlation and parallel test were conducted on 22th of March 2026 to 1st of April 2026.

We are awaiting report from the service provider after that we can retrofit the curve to the first day of the tests.





14/04/2026

Boiler System Engineer

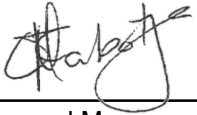
Date



Environmental Practitioner

14/04/2026

Date



2026/04/21

General Manager

Date

Compiled by: Boiler Engineering Department

FFP System Engineer

For: Gert Sibande District Municipality

Air Quality Officer

Copies: Generation Environmental Management

D Herbst

B Mccourt

Generation Compliance Management

R Rampiar

Generation Asset Management

E Patel

Grootvlei Power Station:

Engineering Manager

Operating Manager

Maintenance Manager

Production Manager

Boiler Engineering Manager

System Engineer

Environmental Manager