



Generation

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AND

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GROOTVLEI POWER STATION

Atmospheric Emission License GPS/0015/2024/F04

BOILER ENGINEERING MANAGER

19/05/2026

DATE

ENGINEERING MANAGER

19/05/2026

DATE

ENVIRONMENTAL MANAGER

19/05/2026

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 Apr-2026
	Coal	Tons	650 000	33 626
	Fuel Oil	Tons	20 000	253.260
Production Rates	Product / By-Product Name	Units	Max Production Capacity Permitted	Indicative Production Rate Apr-2026
	Energy	GWh	864.000	48.472
	Ash	Tons	300 000	8 695.684
	RE Ash	kg/MWh	not specified	0.042

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)	19.630
Sulphur Content	%	< 1.46 (%)	0.930
Ash Content	%	24.7 to < 38.1 (%)	25.860

3 EMISSION LIMITS (mg/Nm³)

Associated Unit/Stack	Daily Limit		
	PM	SO ₂	NO _x
North	100	3500	1100
South	100	3500	1100

4 ABATEMENT TECHNOLOGY (%)

Associated Unit/Stack	Technology Type	FFP Efficiency
North	Fabric Filter Plant (FFP)	99.974%
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 ₂	NO	O ₂
North	100.0	0.0	0.0	0.0
South	Off	Off	Off	Off

Note: NO_x emissions are measured as NO in PPM. The final NO_x value is expressed as total NO₂ equivalent.

6 EMISSION PERFORMANCE

Table 6.1: Monthly tonnages for April 2026

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
Unit 1	1.0	90	34
Unit 2	1.0	216	82
Unit 3	Off	Off	Off
Unit 4	Off	Off	Off
Unit 5	Off	Off	Off
Unit 6	Off	Off	Off
SUM	2.03	306	117

Table 6.2: PM AEL Daily Compliance - April 2026

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm ³)
North	0	0	0	0	0	7.4
South	Off	Off	Off	Off	Off	Off
SUM	0	0	0	0	0	

Table 6.3: SO₂ AEL Daily Compliance - April 2026

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm ³)
North	0	0	0	0	0	1 182.2
South	Off	Off	Off	Off	Off	Off
SUM	0	0	0	0	0	

Table 6.4: NO_x AEL Daily Compliance - April 2026

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm ³)
North	0	0	0	0	0	450.6
South	Off	Off	Off	Off	Off	Off
SUM	0	0	0	0	0	

Table 6.5: Legend Description




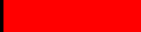
Condition	Colour	Description
Normal		Emissions below Emission Limit Value (ELV)
Grace		Emissions above the ELV during grace period
Section 30		Emissions above ELV during a NEMA S30 incident
Contravention		Emissions above ELV but outside grace or S30 incident conditions

Figure 1: Grootvlei North Stack PM Emissions - April 2026

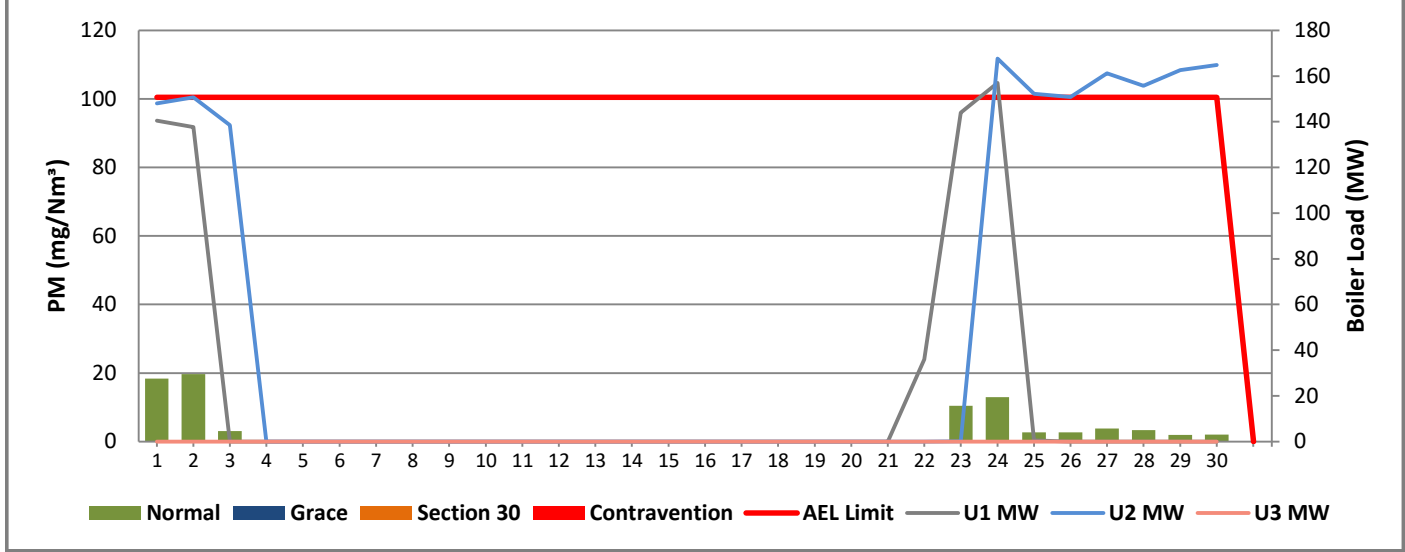


Figure 2: Grootvlei South Stack PM Emissions - April 2026

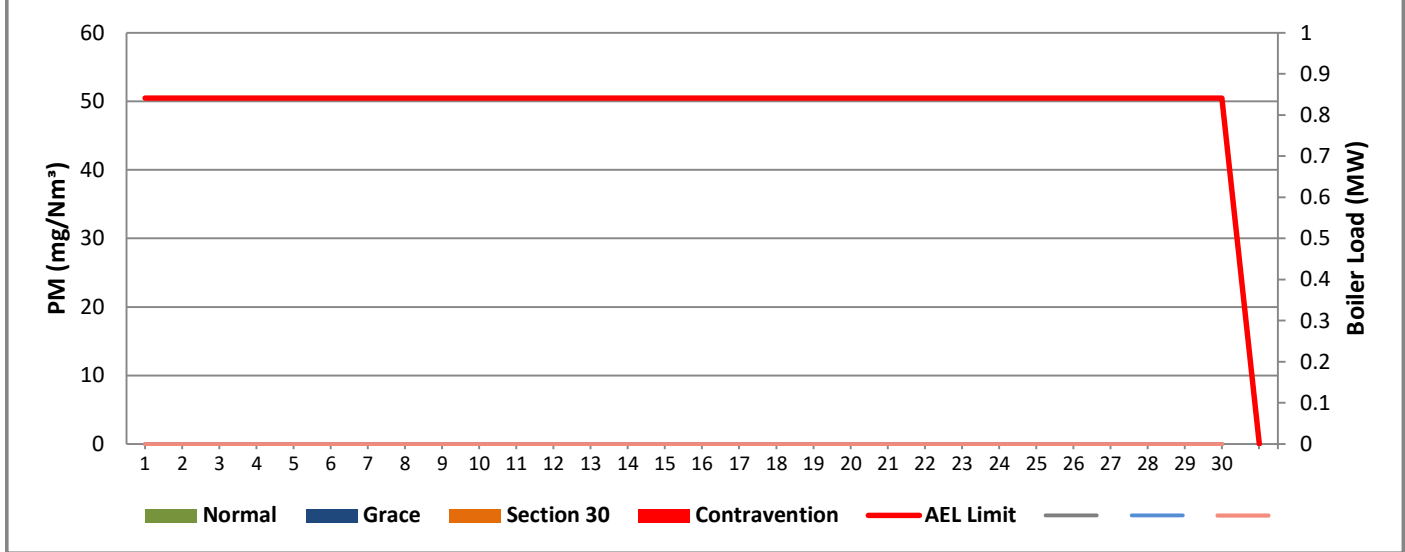


Figure 3: Grootvlei North Stack SO₂ Emissions - April 2026

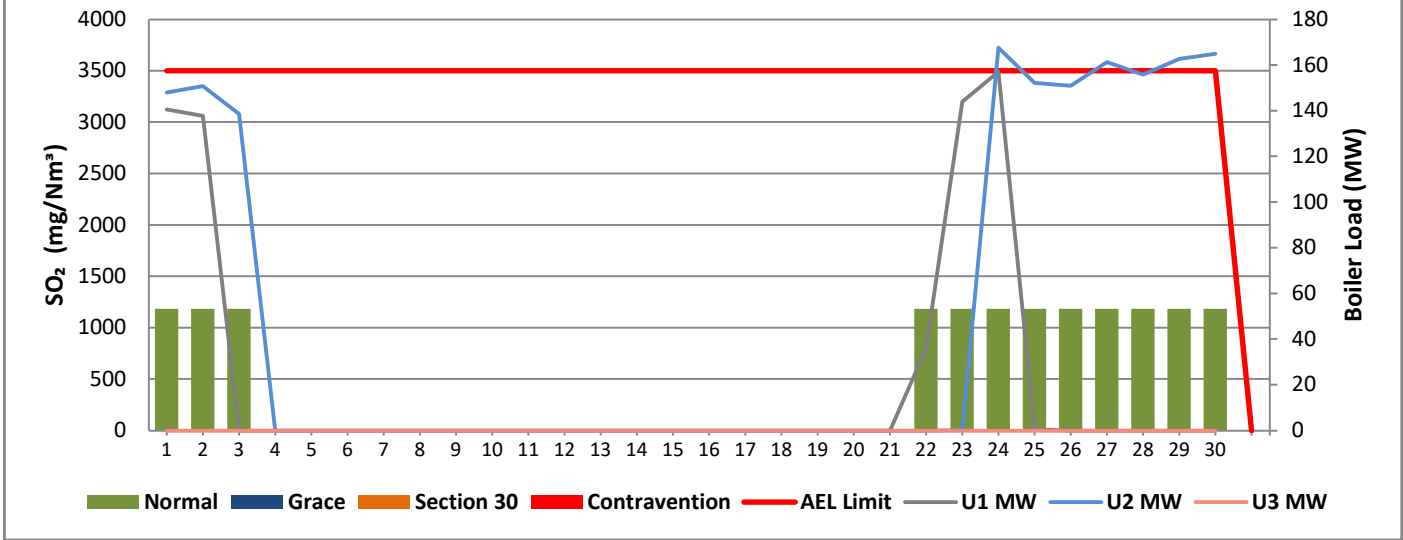


Figure 4: Grootvlei South Stack SO₂ Emissions - April 2026

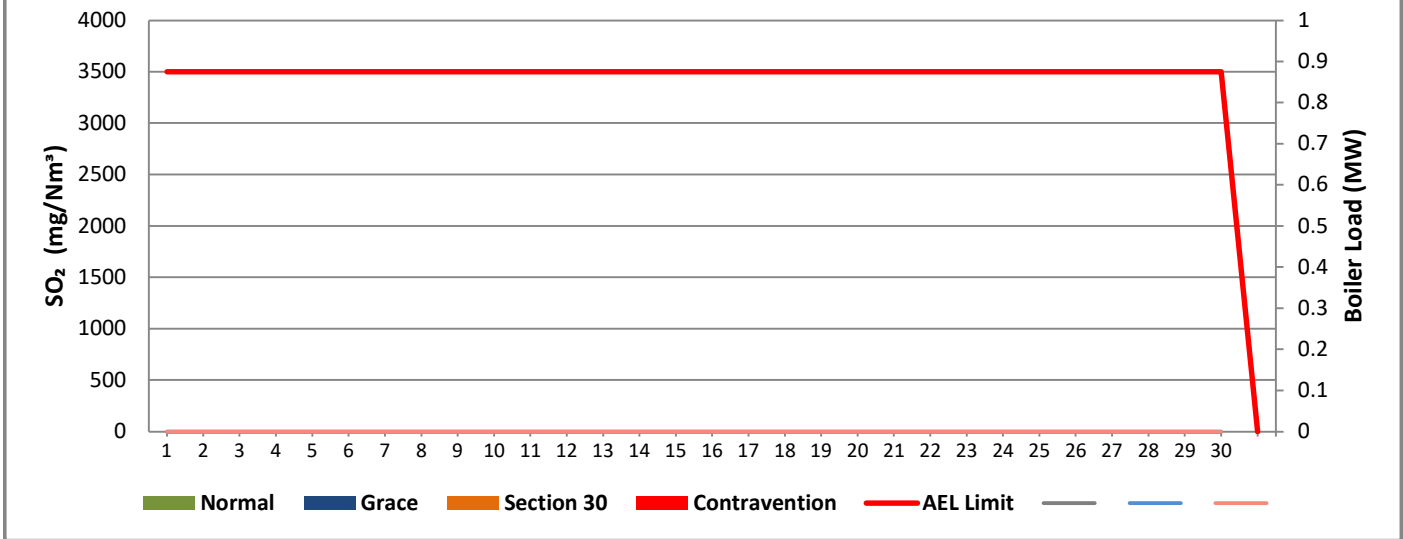


Figure 5: Grootvlei North Stack NO_x Emissions - April 2026

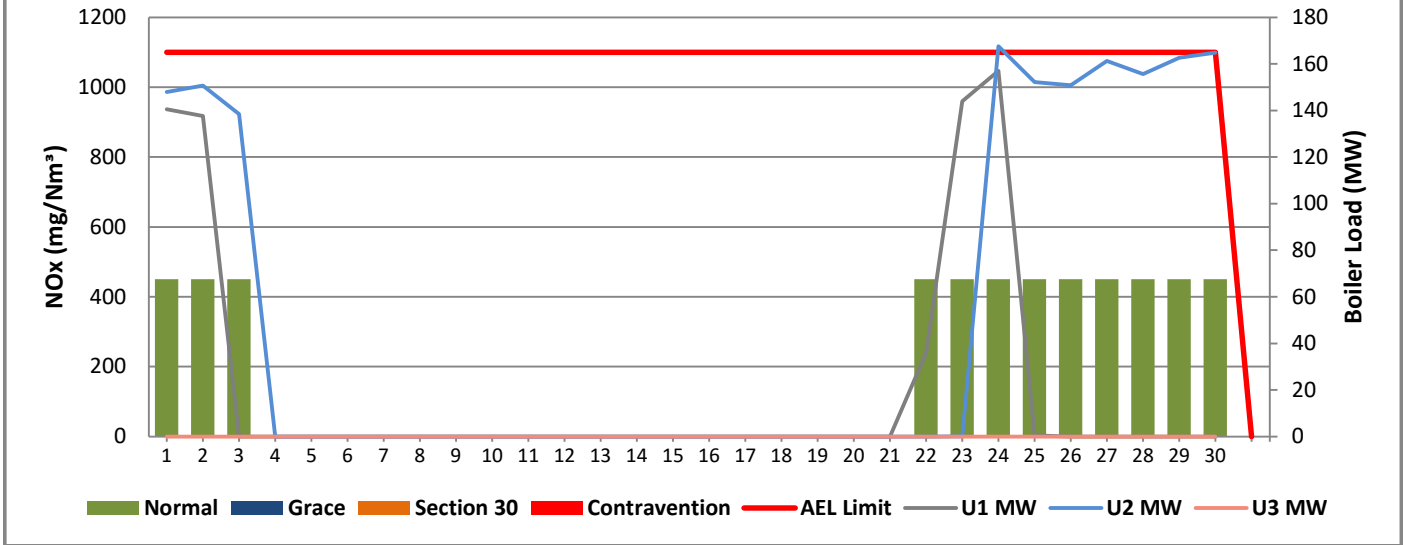
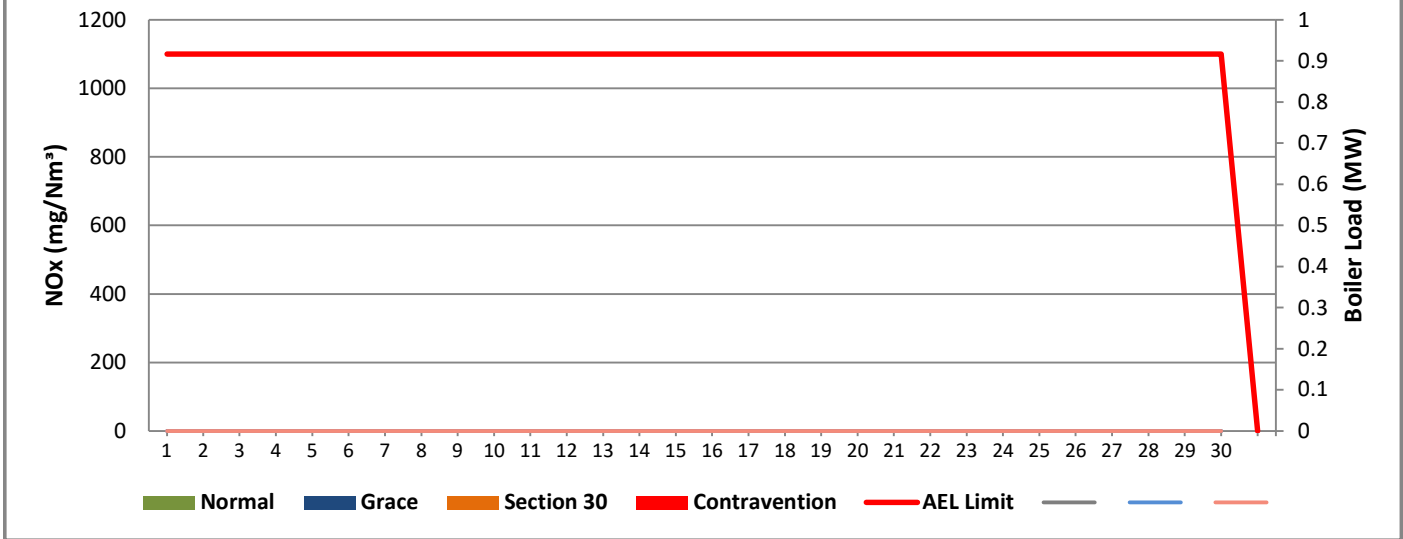


Figure 6: Grootvlei South Stack NO_x Emissions - April 2026



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 the gas analyser (0% reliability) was not operational. It was identified that the heater had failed and it was replaced on 15 May 2026. Monitoring is currently ongoing, and the readings are correct thus far.

The PM QAL2 report was received and the curves were updated. The parallel test results are still outstanding. Once received, the curve will be retrofitted and the report resubmitted.

