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1. Intent

This monthly environmental summary report is a requirement under section 66(6) of the NSW Protection of the Environment Operations Act 1997 (POEO Act), in which holders of an environment protection licence make their pollution monitoring data publicly available. This report is intended to keep the community, stakeholders, and regulators informed of Peak Gold Mine's (PGM's) environmental performance and to maintain a transparent and accountable reporting system.

2. Scope

This report covers all PGMs environmental monitoring conditions covered for October 2024. These conditions, where applicable, are measured against PGMs Environment Protection Licence (EPL 3596), development consent conditions and Australian Standard to determine PGMs compliance.

These conditions include:

- Weather Conditions
- Surface Water Monitoring results
- Noise Monitoring results
- Air Quality Monitoring results
- Blasting monitoring results
- Haulage Movements

3. Definitions

Term	Definition
mm/s	The peak of the vibration in millimetres per second
Insoluble Solids	The insoluble portion of the dust deposited in dust deposition gauge
Total Lead	Including dissolved lead in the liquid portion and the lead particulates in the filter paper following laboratory analysis
g/m2/month	Grams per square metre per month
dB (L)	Decibel (linear maximum)
dB LAeq (15 minute)	Decibel (linear weighted average over 15 minutes)
CN Free	Free Cyanide (Hydrogen Cyanide and Cyanide ions in solution)
CN WAD	Weak Acid Dissociable Cyanide (includes Cyanide species liberated at moderate pH of 4.5)
TSS	Total Suspended Solids

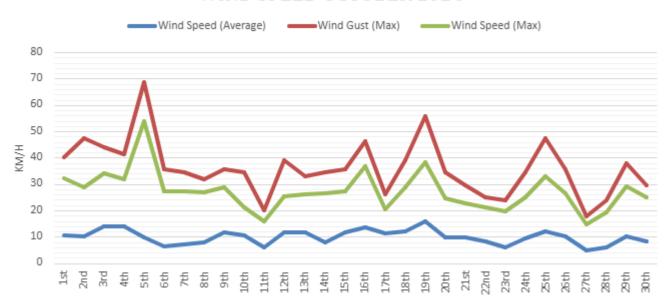
4. Monitoring Results

4.1 Weather

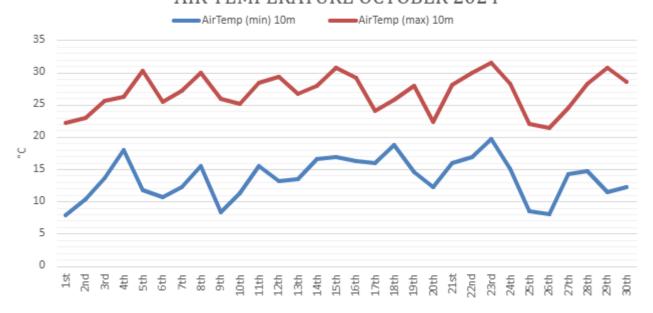
The meteorology monitoring data is acquired through PGM's weather station located 2km South of Cobar.

The Bureau of Meteorology (BOM) website can also be used as an alternate source for this monitoring data.

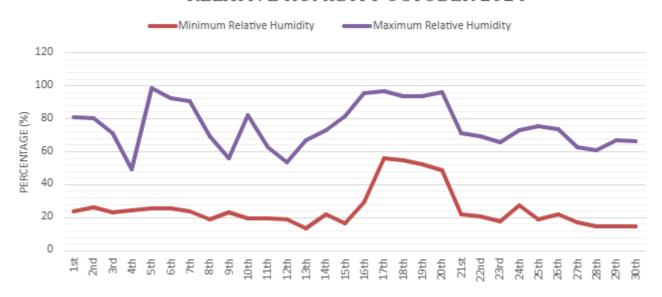
WIND SPEED OCTOBER 2024

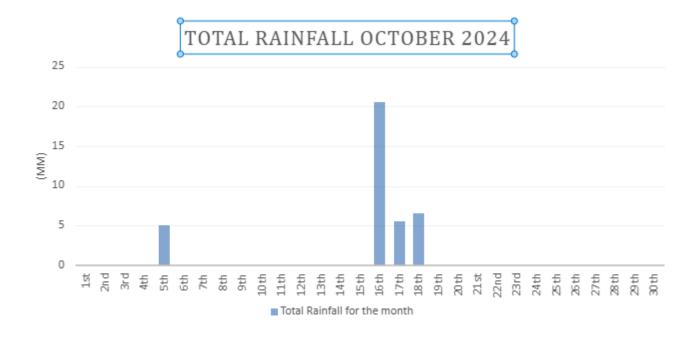


AIR TEMPERATURE OCTOBER 2024



RELATIVE HUMIDITY OCTOBER 2024





Graphs 1-4: Summary of meteorological data for September 2024

4.2 Surface Water

Surface water monitoring involves collecting water samples from several locations around site. The water samples are submitted to a NATA accredited laboratory for physical and chemical analysis. Analysis of pH and electrical conductivity are obtained in the field using a handheld monitor. Table 1 gives the results as per the PGM EPL requirements.

EPA Limit WAD CN TSS Oil & identific-**Published** CN Location Sampled Received Free (mg/L)Grease (mg/L) ation no. (mg/L) **Netted Dam** Νo overflow to Limit 1 Recycled Water Dam *** *** Nο 2 Decant Dam Limit * 14/11/24 16/11/24 8/11/24 Νo 320 216 5 TSF feed Limit * ** ** Young Νo 6 Australia Limit

8/11/24

*

Νo

Limit

*

**

**

Table 1: Surface Water monitoring results

Complex

Spain's Dam

7

4.3 Noise Monitoring

14/11/24

16/11/24

A hand-held monitor is used by PGM employees to monitor noise levels at times set out by the EPL and development consent conditions. Noise monitoring is conducted at the closest residence (Figure 1) and sporadically depending on operational requirements. PGM's closest monitoring point is located at the Dellavale boundary, approximately 400m closer to the mine noise than the residence. To determine the noise level (dB) experienced at the residence, sound intensity I and the inverse square law $1/r^2$ is calculated based on the residences distance from mine noise source.

Noise monitoring results are below in Table 3. Licenced noise limits set by the EPL and development consent conditions are given in Table 2.

^{*}No monitoring required

^{**}No discharge

^{***}No water in dam



Figure 1: Location of the "Dellavale" properties house (blue circle) and noise monitoring location (red diamond).

Table 2: Noise Monitoring levels

Time Band	Day	Noise Level (dB)
7:00am - 6:00pm	Mon – Fri	45
6:00pm - 10:00pm	Mon – Fri	40
10:00pm - 7:00am	Mon – Fri	35
7:00am - 1:00pm	Sat	45
1.00pm - 7:00am	Sat	35
12:00am - 12:00pm	Sun	35

Table 3: Attended Noise Monitoring Results

Location	Sampled & Obtained	Published	Time	10 (dB)	LA 10 (dB) Monitoring Result at Monitor Location	LA 10 (dB) Calculated Monitoring Result at Residence	Key Noise Source	Complies
Dellavale	10/10/24	8/11/24	20:40	40	38.4	34.42	Traffic	Yes

^{*} Data Invalid due to high wind speed I.e. 3.28-3.55m/s. This Is higher than allowable EPL limit of 3m/s.

^{**} It complies due to noise not being emitted by PGM

4.4 Air Quality

Fall out dust deposition bottles are currently used to monitor air quality. The bottles are positioned in the field (Figure 2) for a period of 30 ± 2 days. Monitoring is required to be undertaken quarterly; however, we conduct monthly monitoring. The bottles are then sent to Australian Laboratory Services (ALS) for external analysis.

PGM has no set limits for air quality monitoring levels. However, PGM takes on board the EPAs best practice limit of 4g/m²/time (limit is applicable to a 12-month averaging period). If the 12-month rolling average of a result is greater than 4g/m²/time, the cause will be investigated.



Figure 2: Location of dust gauges on PGM Mining Leases

Table 4: Air Quality Results

EPA identific- ation no.	Site	Sampled	Received	Published	Australian Standard Limit (g/m2/mont h)	Insoluble Solids (g/m2/month)	Total Lead (g/m2/month)	Complies
8	DM1				4			
9	DM2				4			
10	DM3				4			
11	DM4				4			
4	Dellavale				4			
3	Bimbimbie				4			

Air quality results have not been received yet. The document will be updated once the results have come in.

4.5 Blast Monitoring

The vibration monitoring results displayed in Table 6 represents all blast vibration events that were trigged at the New Occidental, Fort Bourke and/or Dellavale monitors (Figure 3).

As seen in Table 6 blasting events for the month were below PGMs EPL limits. Vibration limits set by the NSW Environmental Protection Authority (EPA) can be viewed in Table 5.

The compliance against the overall 12-month period will be reported in the EPL Annual Return.



Figure 3: Location of Vibration Monitors on PGM's Mining Lease

Table 5: PGM EPL Limits

Peak Particle Velocity (mm/s)	Allowable Exceedance		
5.00	<5% of the total number of blasts in a 12-month period are to be above 5mm/s		
10.00	NIL		

Table 6: Vibration Results

OCTOBER 2024

Location	ion Sampled & ID		New Occidental (mm/s)	Fort Bourke (mm/s)	Dellavale (mm/s)	Complies
Peak 2/10/2024 KRS_980_INC		0.18	0	0	Yes	
Peak	3/10/2024	KRS_1205_DEC	0.16	0	0	Yes
New Cobar	4/10/2024	CHS_10070_ACC	0.24	Triggered	0	Yes
Peak	4/10/2024	CRS_9770_INC	0.21	0	Triggered	Yes
Peak 4/10/2024 KRS_930		KRS_930_DEC	0.18	0	Triggered	Yes
Peak 9/10/2024 CRS_9770_INC		CRS_9770_INC	0.04	1.62	0.25	Yes
New Cobar 9/10/2024 JUB_17_NTH_425		JUB_17_NTH_425	0.21	0	0	Yes
Peak 11/10/2024 CRS_9460_765_540-555		0.08	0.15	0.46	Yes	
New Cobar	New Cobar 15/10/2024 CHS_9660_DEC		0.21	0	0	Yes
New Cobar 23/10/2024 CHS_9660_DEC		0.05	1.49	0.26	Yes	
Peak	Peak 27/10/2024 CHS_10100_INC		0.04	Triggered	Triggered	Yes
Peak 28/10/2024 CRS_9770_INC		0.38	0.68	Triggered	Yes	

4.6 Haulage Movements

PGM is required to monitor the number of truck loads undertaken from New Cobar to the Peak site as per current consent conditions. In the month of October, 750 truckloads were permitted to be delivered to Peak Gold Mine. In total, 376 truckloads were completed. Table 7 shows a summary of the trucking for the month.

Table 7: Haulage Summary

Date	Truck Loads
1/08/2024	22
2/08/2024	22
3/08/2024	21
4/08/2024	22
5/08/2024	0
6/08/2024	0
7/08/2024	0
8/08/2024	20
9/08/2024	22
10/08/2024	23
11/08/2024	20
12/08/2024	0
13/08/2024	0
14/08/2024	23
15/08/2024	24
16/08/2024	0
17/08/2024	0
18/08/2024	0
19/08/2024	0
20/08/2024	0
21/08/2024	24
22/08/2024	24
23/08/2024	9
24/08/2024	0
25/08/2024	0
26/08/2024	0
27/08/2024	0
28/08/2024	20
29/08/2024	16
30/08/2024	0
Average	10.06