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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 May 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 millimet res per second
Insoluble Solids	The insoluble portion of the dust deposited in dust deposition gauge
Total Lead	Including dissolved lead in the liqui d portion and the lead particulates in the filter paper following laboratory analysis
g/m2/month	Grams per square met re 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

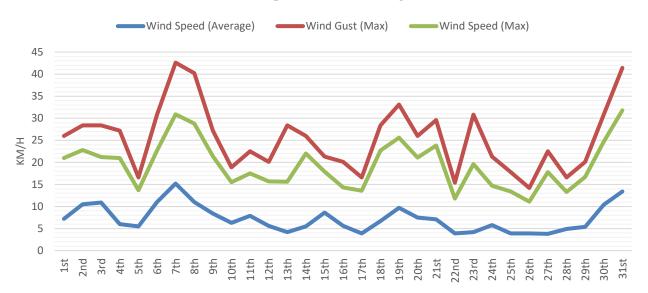
4. Monitoring Results

4.1 Weather

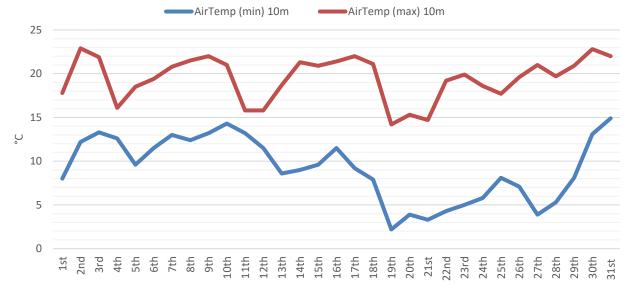
The meteorology monitoring data is acquired through PGM's weather station located 2km South of Cobar.

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

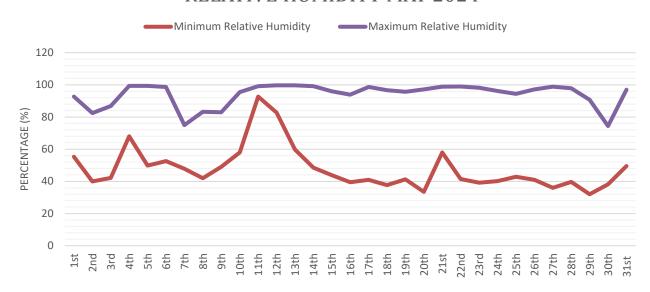
WIND SPEED MAY 2024



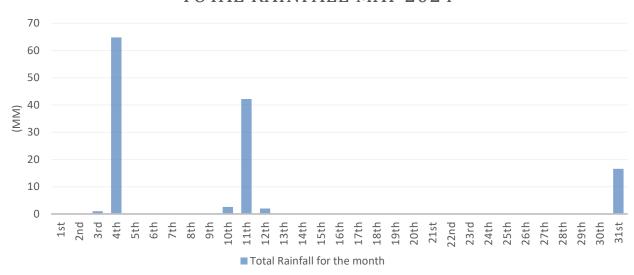




RELATIVE HUMIDITY MAY 2024







Graphs 1-4: Summary of meteorological data for May 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** Location Sampled Received CN Free (mg/L) Grease ation no. (mg/L) (mg/L) **Netted Dam** No overflow to Limit 1 Recycled Water Dam 14/05 /24 28/05 /24 13/06/24 No 1.14 0.695 Decant Dam 2 Limit 14/05 /24 28/05 /2 4 13/06/24 No 450 280 TSF feed 5 Limit Young No 6 Australia Limit Complex No 7 Spain's Dam Limit

Table 1: Surface Water moni toring results

4.3 Noise Monitoring

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 residen ce (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/r² is calculated based on the residences distance from mine noise source.

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

^{*}No monitoring required

^{**}No discharge



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	LA 10 (dB) Limit	LA 10 (dB) Monitoring Result at Monitor Location	LA 10 (dB) Calculated Monitoring Result at Residence	Key Noise Source	Complies
Dellavale	25/0 5/2 4	13/0 6/24	8:45	45	47.9	43.95	Highway traffic, Birds	Yes
Dellavale	26/05/24	13/0 6/24	18:03	35	32.1	28.12	Highway traffic	Yes

^{*} Data Invalid due to high wind speed I.e. 3.28 -3.55 m/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 $4g/m^2/time$ (limit is applicable to a 12-month averaging period). If the 12-month rolling average of a result is greater than $4g/m^2/time$, 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/month)	Insoluble Solids (g/m2/month)	Total Lead (g/m2/month)	Complies
8	DM1	17/04/24 - 16/05/2024	11/06/24	13/06/24	4	0.8	0.0000342	Yes
9	DM2	17/04/24 - 16/05/2024	11/06/24	13/06/24	4	0.5	0.0000005	Yes
10	DM3	17/04/24 - 16/05/2024	11/06/24	13/06/24	4	1.3	0.00226	Yes
11	DM4	17/04/24 - 16/05/2024	11/06/24	13/06/24	4	0.9	0.000178	Yes
4	Dellavale	17/04/24 - 16/05/2024	11/06/24	13/06/24	4	2.2	0.0000005	Yes
3	Bimbimbie	17/04/24 - 16/05/2024	11/06/24	13/06/24	4	0.5	0.0000005	Yes

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

	Sampled &	ID	New	Fort	Dellavale	Complies
Location	Received		Occidental	Bourke	(mm/s)	
			(mm/s)	(mm/s)		
	1/05/2024	JUB_15_ODN_350	0.02	0.59	0.05	Yes
New Cobar						
New Cobar	1/05/2024	JUB_17_NTH_570	0.03	3.16	0.23	Yes
New Cobar	2/05/2024	JUB_15_ODN_350	0	0.68	0.08	Yes
	, , -		-			
New Cobar	3/05/2024	CHS_9970_NTH_450	0.25	0.47	1.11	Yes
ivev cobai	3/03/2024	ens_5576_14111_456	0.23	0.47	1.11	103
Peak	4/05/2024	KRS_1080_NTH_Panel	No trigger	No trigger	No trigger	Yes
Peak	4/05/2024	KK2_1000_INTH_Pallel	No trigger	No trigger	No trigger	165
	5 /05 /000 A	CHE COZO NITH AFO	0.10	2.24		.,
New Cobar	5/05/2024	CHS_9970_NTH_450	0.18	0.94	1.44	Yes
Peak	5/05/2024	S4U_9201_480_750	0.16	0.12	0.17	Yes
Peak	9/05/2024	KRS_1080_NTH_Panel	No trigger	No trigger	No trigger	Yes
			00	00	00	
Peak	11/05/2024	CRS 9405 765 530	No trigger	No trigger	No trigger	Yes
	,,	0.10_0 100_7 00_000				. 55
New Cobar	14/05/2024	CHS 9695 DEC	0.73	0	0	Yes
INCW CODAI	14/03/2024	C113_3033_DEC	0.75	U	U	103
Dool	15/05/2024	CDC 040F 7CF F20	Na tuisasa	No tuisass	No triangu	Vaa
Peak	15/05/2024	CRS_9405_765_530	No trigger	No trigger	No trigger	Yes
	45/05/2024		0.04	4.00	0.05	
New Cobar	15/05/2024	JUB_15_ODN_350	0.01	1.32	0.05	Yes
Peak	17/05/2024	S4U_9201_480_750	No trigger	No trigger	No trigger	Yes
Peak	18/05/2024	CRS_9405_765_530	No trigger	No trigger	No trigger	Yes
New Cobar	18/05/2024	JUB 15 ODN 350	0.01	2.1	0.05	Yes
New Cobar	21/05/2024	CHS 10050 RAR	No trigger	No trigger	No trigger	Yes
	,,	ee				. 55
Peak	21/05/2024	KRS 1205 DEC	0.23	0	0	Yes
reak	21/03/2024	KK3_1203_DEC	0.23	U	U	163
Doole	22/05/2024	VDC 100F ODC	0.16	0.62	1 25	Vos
Peak	22/05/2024	KRS_1005_ODS	0.16	0.62	1.25	Yes
	22/25/2024		0.00	4.00	0.44	
New Cobar	23/05/2024	JUB_15_ODN_350	0.08	1.23	0.11	Yes
New Cobar	23/05/2024	JUB_17_NTH_570	0.16	9.59	0.62	Yes
Peak	29/05/2024	KRS_1080_NTH_Panel	0.22	0	0	Yes
	· ·					
Peak	30/05/2024	KRS_1080_NTH_Panel	No trigger	No trigger	No trigger	Yes
. 5411	-0,00,2021	<u>.</u> and				. 00
Peak	31/05/2024	CRS_9740_STH_485	No trigger	No trigger	No trigger	Yes
i cak	31/03/2024	CN3_3/40_3111_403	NO trigger	NO trigger	NO trigger	163

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 May, 775 truckloads were permitted to be delivered to Peak Gold Mine. In total, 475 truckloads were completed. Table 7 shows a summary of the trucking for the month.

Table 7: Haulage Summary

14010 7.11	autage Summary
Date	Truck Loads
1/05/2024	21
2/05/2024	20
3/05/2024	11
4/05/2024	0
5/05/2024	0
6/05/2024	24
7/05/2024	25
8/05/2024	26
9/05/2024	15
10/05/2024	0
11/05/2024	0
12/05/2024	0
13/05/2024	24
14/05/2024	0
15/05/2024	19
16/05/2024	10
17/05/2024	0
18/05/2024	0
19/05/2024	0
20/05/2024	25
21/05/2024	19
22/05/2024	16
23/05/2024	25
24/05/2024	38
25/05/2024	0
26/05/2024	0
27/05/2024	25
28/05/2024	45
29/05/2024	45
30/05/2024	42
31/05/2024	0
Average	15.23