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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 2022. 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

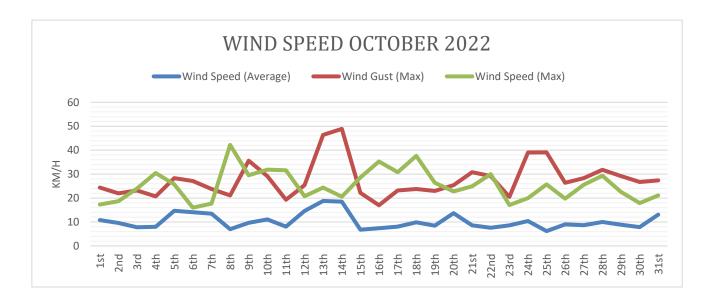
3. Definitions

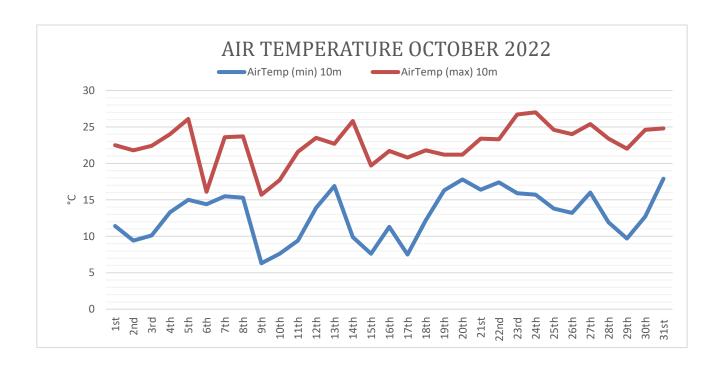
Term	Definition
mm/s	The peak of the vibration in millimetres per second
Insoluble Solids	The insoluble portion of the dust deposited in dust deposition gauge
Total Lead	Including dissolved lead in the liquid portion and the lead particulates in the filter paper following laboratory analysis
g/m2/month	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

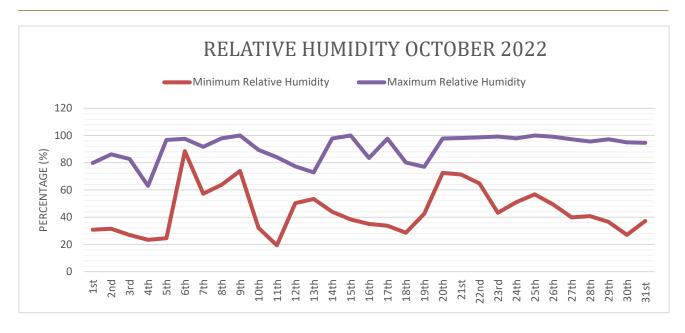
4. Monitoring Results

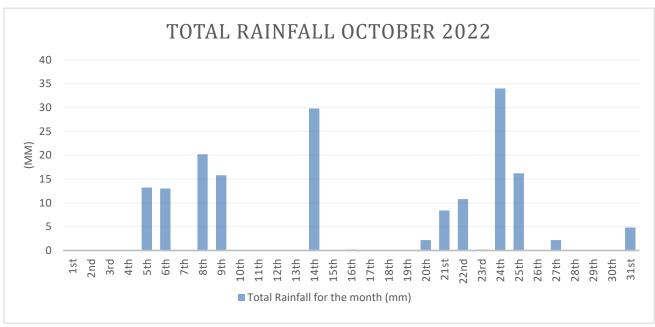
4.1 Weather

The meteorology monitoring data is acquired through PGM's weather station located 2km South of Cobar. The BOM website can also be used as an alternate source for this monitoring data.









Graphs 1-4: Summary of meteorological data for October 2022

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.

Table 1: Surface Water monitoring results (*No monitoring required)

Location	Sampled	Received	Published	Limit	WAD CN (mg/L)	CN Free (mg/L)	TSS (mg/L)	Oil & Grease
Recycle d Water Dam	2/10/2022	10/10/2022	20/10/2022	No Limit	0.096	0.058	19	*
Raw Water Tank	2/10/2022	10/10/2022	20/10/2022	No Limit	0.142	0.100	77	*
Spain's Dam	2/10/2022	10/10/2022	20/10/2022	No Limit	*	*	9	<5
Decant Dam	2/10/2022	10/10/2022	20/10/2022	No Limit	4.87	2.49	20	*

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 resident (Figure 1) and sporadically depending on operational requirements. PGMs 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.



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	10/10/2022	11/10/2022	10.30am	45	44.6	40.6	Birds chirping	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

Site	Location	Sampled	Received	Published	Australian Standard Limit (g/m2/month	Insoluble Solids (g/m2/month	Total Lead (g/m2/month)	Complies
DM1	NW corner of tailings dam	3/10/23 - 2/11/23	3/01/23	20/01/23	4	0.7	0.000512	Yes
DM2	SW corner of tailings dam	3/10/23 - 2/11/23	3/01/23	20/01/23	4	0.6	0.000390	Yes
DM3	Carpark	3/10/23 - 2/11/23	3/01/23	20/01/23	4	3.3	0.0186	Yes
DM4	NE corner of PGM magazine	3/10/23 - 2/11/23	3/01/23	20/01/23	4	2.7	0.00312	Yes
Dellavale	1.3km ESE of New Cobar	3/10/23 - 2/11/23	3/01/23	20/01/23	4	1.3	0.000551	Yes
Bimbimbie	1.2km SW of New Cobar	3/10/23 - 2/11/23	3/01/23	20/01/23	4	0.9	0.000672	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

Location	Sampled & Received	ID	New Occidental (mm/s)	Fort Bourke (mm/s)	Dellavale (mm/s	Complies
Peak	02-10-22	CRS_9715_ODS	No Trigger	No Trigger	No Trigger	Yes
Peak	02-10-22	CRS_9350_795_500	No Trigger	No Trigger	No Trigger	Yes
Peak	03-10-22	S4U_9131_725_450	No Trigger	No Trigger	No Trigger	Yes
Peak	09-10-22	PVD_8720_STH_565	No Trigger	No Trigger	No Trigger	Yes
Peak	10-10-22	CRS 9715-9690 RAR	No Trigger	No Trigger	No Trigger	Yes
Peak	11-10-22	KRS_1105_685_580	No Trigger	No Trigger	No Trigger	Yes
Peak	13-10-22	KRS_1105_685_580	No Trigger	No Trigger	No Trigger	Yes
Peak	16-10-22	CRS_9490_805_575	No Trigger	No Trigger	No Trigger	Yes
Peak	18-10-22	CRS_9350_795_500	No Trigger	No Trigger	No Trigger	Yes
Peak	20-10-22	CRS_9490_805_575	No Trigger	No Trigger	No Trigger	Yes
Peak	21-10-22	CRS_9350_795_500	No Trigger	No Trigger	No Trigger	Yes
Peak	21-10-22	CRS_9490_805_575	No Trigger	No Trigger	No Trigger	Yes
Peak	24-10-22	CRS_9665_765_530	No Trigger	No Trigger	No Trigger	Yes
Peak	25-10-22	KRS_1105_685_580	No Trigger	No Trigger	No Trigger	Yes
Peak	26-10-22	KRS_1105_685_580	No Trigger	No Trigger	No Trigger	Yes
Peak	28-10-22	CRS_9665_765_580	No Trigger	No Trigger	No Trigger	Yes
New Cobar	29-10-22	JUB_21_NTH_575	No Trigger	0.99	0.13	Yes
New Cobar	31-10-22	JUB_21_NTH_575	No Trigger	0.99	0.13	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 truck loads were permitted to be delivered to Peak Gold Mine. In total, 409 truck loads were completed. Table 7 shows a summary of the trucking for the month.

Table 7: Haulage Summary

lable /: Ha	ulage Summary
Date	Truck Loads
01-10-22	0
02-10-22	0
03-10-22	0
04-10-22	15
05-10-22	0
06-10-22	0
07-10-22	0
08-10-22	0
09-10-22	0
10-10-22	34
11-10-22	44
12-10-22	45
13-10-22	46
14-10-22	0
15-10-22	0
16-10-22	45
17-10-22	45
18-10-22	40
19-10-22	24
20-10-22	0
21-10-22	0
22-10-22	0
23-10-22	6
24-10-22	0
25-10-22	0
26-10-22	0
27-10-22	0
28-10-22	21
29-10-22	20
30-10-22	20
31-10-22	4
Daily Average	29