

PEAK MONTHLY ENVIRONMENTAL MONITORING
SUMMARY MARCH 2024

TECHNICAL
REPORT



Table of Contents

| | |
|----------------------------|----|
| 1. Intent | 3 |
| 2. Scope..... | 3 |
| 3. Definitions | 3 |
| 4. Monitoring Results..... | 4 |
| 4.1 Weather | 4 |
| 4.2 Surface Water..... | 6 |
| 4.3 Noise Monitoring | 6 |
| 4.4 Air Quality | 8 |
| 4.5 Blast Monitoring..... | 10 |
| 4.6 Haulage Movements..... | 12 |

| | |
|--------------|--------------------------------|
| Author | Sara Waak |
| Version | 1.0 |
| Date Created | 4 th April 2024 |
| Review Date | 20 th December 2024 |

MARCH 2024

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 March 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

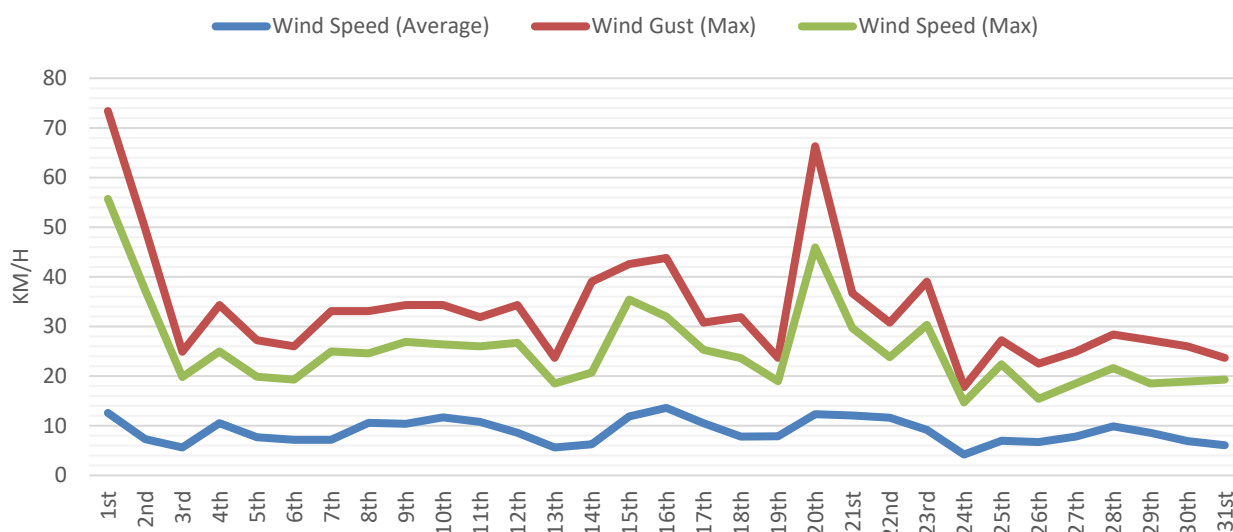
| Term | Definition |
|-------------------------|--|
| mm/s | The peak of the vibration in millimetres per second |
| Insoluble Solids | The insoluble portion of the dust deposited in dust deposition gauge |
| Total Lead | Including dissolved lead in the liquid portion and the lead particulates in the filter paper following laboratory analysis |
| g/m ² /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

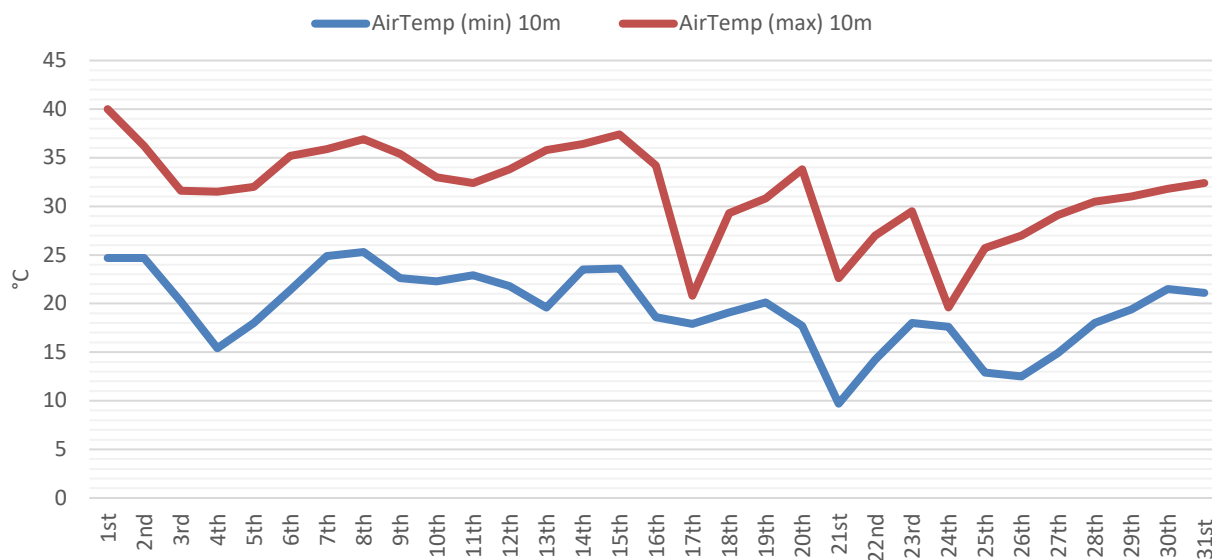
4.1 Weather

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.

WIND SPEED MARCH 2024

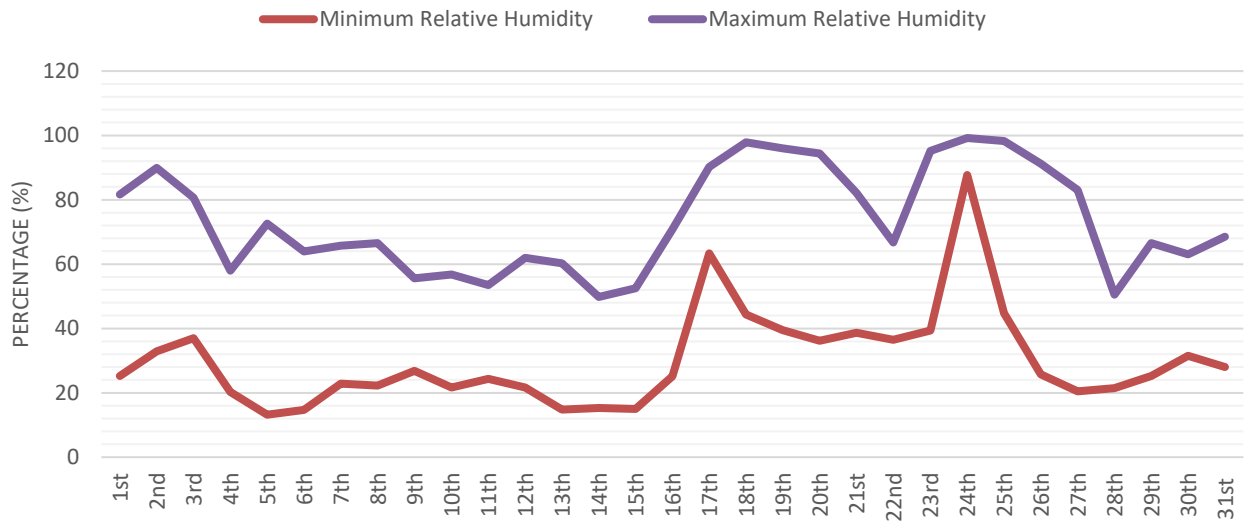


AIR TEMPERATURE MARCH 2024

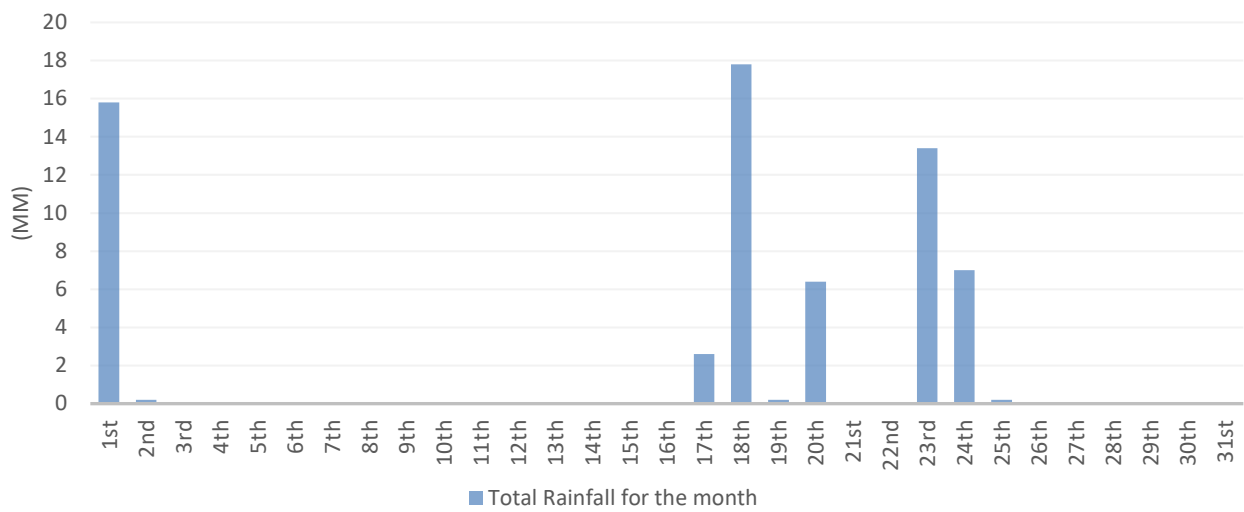


MARCH 2024

RELATIVE HUMIDITY MARCH 2024



TOTAL RAINFALL MARCH 2024



Graphs 1-4: Summary of meteorological data for March 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.

Table 1: Surface Water monitoring results

| EPA identification no. | Location | Sampled | Received | Published | Limit | WAD CN (mg/L) | CN Free (mg/L) | TSS (mg/L) | Oil & Grease |
|------------------------|---|---------|----------|-----------|----------|---------------|----------------|------------|--------------|
| 1 | Netted Dam overflow to Recycled Water Dam | | | | No Limit | ** | ** | * | * |
| 2 | Decant Dam | 6/03/24 | 21/03/24 | 11/04/24 | No Limit | 0.048 | 0.034 | * | * |
| 5 | TSF feed | 6/03/24 | 21/03/24 | 11/04/24 | No Limit | 96.8 | 90.4 | * | * |
| 6 | Young Australia Complex | | | | No Limit | * | * | ** | ** |
| 7 | Spain's Dam | | | | No Limit | * | * | ** | ** |

*No monitoring required

**No discharge

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 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 residence distance from mine noise source.

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

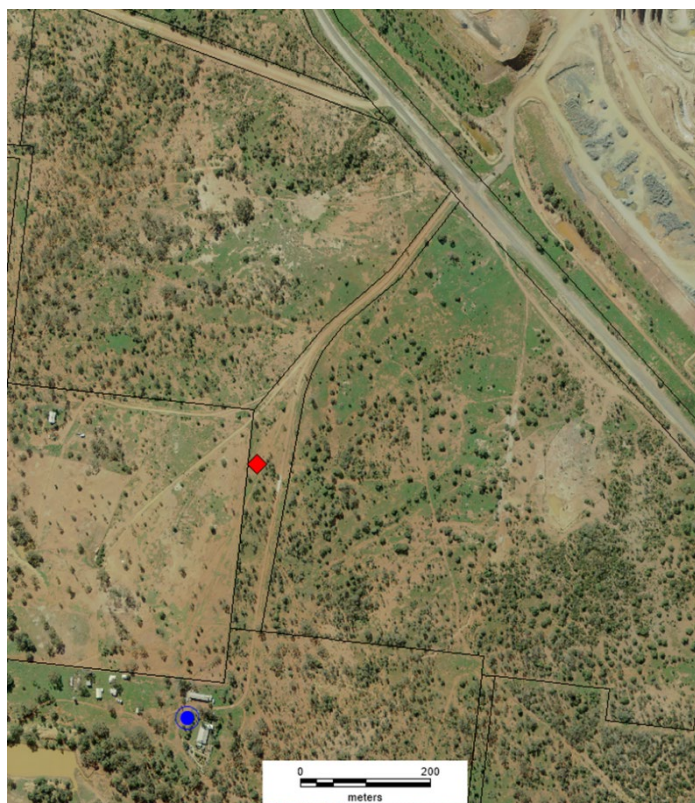


Figure 1: Location of the "Dellavale" properties house (blue circle) and noise monitoring location (red diamond).

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 | 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 | 18/0 3/2 4 | 11/04/24 | 15:45 | 45 | 33.1 | 29.12 | Birds | 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

MARCH 2024

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 $4 \text{ g/m}^2/\text{time}$ (limit is applicable to a 12-month averaging period). If the 12-month rolling average of a result is greater than $4 \text{ g/m}^2/\text{time}$, the cause will be investigated.



Figure 2: Location of dust gauges on PGM Mining Leases

MARCH 2024

Table 4: Air Quality Results

| EPA identification no. | Site | Sampled | Received | Published | Australian Standard Limit (g/m ² /month) | Insoluble Solids (g/m ² /month) | Total Lead (g/m ² /month) | Complies |
|------------------------|-----------|------------------------|------------|-----------|--|---|--------------------------------------|----------|
| 8 | DM1 | 20/02/24 – 20/03/24 | 15/04/2024 | 16/04/24 | 4 | 2.8 | 0.000418 | Yes |
| 9 | DM2 | 20/02/24 – 20/03/24 | 15/04/2024 | 16/04/24 | 4 | 2.6 | 0.00128 | Yes |
| 10 | DM3 | 20/02/24 – 20/03/24 | 15/04/2024 | 16/04/24 | 4 | 2.5 | 0.0076 | Yes |
| 11 | DM4 | 20/02/24 – 20/03/24 | 15/04/2024 | 16/04/24 | 4 | 1.3 | 0.00144 | Yes |
| 4 | Dellavale | 20/02/24 – 20/03/24 | 15/04/2024 | 16/04/24 | 4 | 1.4 | 0.000129 | Yes |
| 3 | Bimbimbie | 20/02/24 – 20/03/24 | 15/04/2024 | 16/04/24 | 4 | 2.3 | 0.0000964 | Yes |

4.5 Blast Monitoring

The vibration monitoring results displayed in Table 6 represents all blast vibration events that were triggered 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 |

MARCH 2024

Table 6: Vibration Results

| Location | Sampled & Received | ID | New Occidental (mm/s) | Fort Bourke (mm/s) | Dellavale (mm/s) | Complies |
|-----------|--------------------|--------------------|-----------------------|--------------------|------------------|----------|
| Peak | 2/03/2024 | CRS_9715_STH_505 | no trigger | no trigger | no trigger | Yes |
| Peak | 3/03/2024 | CRS_9520_790_475 | no trigger | no trigger | no trigger | Yes |
| Peak | 4/03/2024 | KRS_1080_NTH_Panel | 0.16 | 0.06 | 0.12 | Yes |
| New Cobar | 5/03/2024 | CHS_9935_STH_410 | no trigger | no trigger | no trigger | Yes |
| New Cobar | 6/03/2024 | JUB_15_ODN_350 | 0.08 | 0.8 | 0.44 | Yes |
| Peak | 7/03/2024 | CRS_9715_STH_505 | no trigger | no trigger | no trigger | Yes |
| Peak | 8/03/2024 | CRS_9715_STH_505 | no trigger | no trigger | no trigger | Yes |
| Peak | 10/03/2024 | S4U_9161_500_730 | no trigger | no trigger | no trigger | Yes |
| New Cobar | 13/03/2024 | CHS_9935_STH_410 | no trigger | no trigger | no trigger | Yes |
| Peak | 14/03/2024 | KRS_1080_NTH_Panel | no trigger | no trigger | no trigger | Yes |
| Peak | 14/03/2024 | KRS_980_INC | 0.51 | 1.04 | 2.42 | Yes |
| Peak | 18/03/2024 | KRS_1080_NTH_Panel | no trigger | no trigger | no trigger | Yes |
| New Cobar | 19/03/2024 | CHS_10050_SPL | 0.05 | 0.19 | 0.26 | Yes |
| Peak | 20/03/2024 | CRS_9490_765_520 | no trigger | no trigger | no trigger | Yes |
| New Cobar | 22/03/2024 | JUB_17_NTH_570 | 0.03 | 5.75 | 0.35 | Yes |
| Peak | 24/03/2024 | CRS_9490_765_520 | no trigger | no trigger | no trigger | Yes |
| New Cobar | 25/03/2024 | CHS_9695_DEC | 0.07 | 3.23 | 0.17 | Yes |
| Peak | 27/03/2024 | S4U_9201_480_750 | no trigger | no trigger | no trigger | Yes |
| Peak | 29/03/2024 | KRS_1080_NTH_Panel | no trigger | no trigger | no trigger | Yes |
| Peak | 30/03/2024 | KRS_905_ACC | 0.05 | 0.1 | 0.17 | Yes |
| New Cobar | 31/03/2024 | CHS_9935_STH_410 | 0.47 | 1.59 | 2.96 | Yes |

MARCH 2024

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 March, 775 truckloads were permitted to be delivered to Peak Gold Mine. In total, 285 truckloads were completed. Table 7 shows a summary of the trucking for the month.

Table 7: Haulage Summary

| Date | Truck Loads |
|----------------|-------------|
| 1/03/2024 | 0 |
| 2/03/2024 | 0 |
| 3/03/2024 | 20 |
| 4/03/2024 | 24 |
| 5/03/2024 | 28 |
| 6/03/2024 | 20 |
| 7/03/2024 | 0 |
| 8/03/2024 | 0 |
| 9/03/2024 | 0 |
| 10/03/2024 | 0 |
| 11/03/2024 | 0 |
| 12/03/2024 | 0 |
| 13/03/2024 | 0 |
| 14/03/2024 | 0 |
| 15/03/2024 | 0 |
| 16/03/2024 | 0 |
| 17/03/2024 | 0 |
| 18/03/2024 | 0 |
| 19/03/2024 | 20 |
| 20/03/2024 | 0 |
| 21/03/2024 | 25 |
| 22/03/2024 | 0 |
| 23/03/2024 | 0 |
| 24/03/2024 | 0 |
| 25/03/2024 | 26 |
| 26/03/2024 | 27 |
| 27/03/2024 | 26 |
| 28/03/2024 | 26 |
| 29/03/2024 | 0 |
| 30/03/2024 | 43 |
| 31/03/2024 | 0 |
| Average | 9.19 |