

HERA-FEDERATION MONTHLY ENVIRONMENTAL MONITORING SUMMARY JULY 2025



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Author	Lucija Hossack
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1. Intent

This monthly environmental monitoring 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 the Hera-Federation mine's environmental performance and to maintain a transparent and accountable reporting system.

2. Scope

This report covers all of Hera-Federation's environmental monitoring conditions for July 2025. These conditions, where applicable, are measured against Hera-Federation's Environmental Protection Licence (EPL), development consent conditions and Australian Standards to determine Hera-Federation's compliance.

These conditions include;

- Weather Conditions
- Surface Water Monitoring results
- Ground Water Monitoring results
- Noise Monitoring results
- Blasting monitoring results
- Air Quality Monitoring results
- Gold Room Stack Monitoring
- Ore transport
- Concentrate Transport
- Complaints

3. Definitions

Term	Definition
mm/s	The peak of the vibration in millimeters 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
dB (L)	Decibel (linear maximum)
dB LA _{eq} (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. Maps

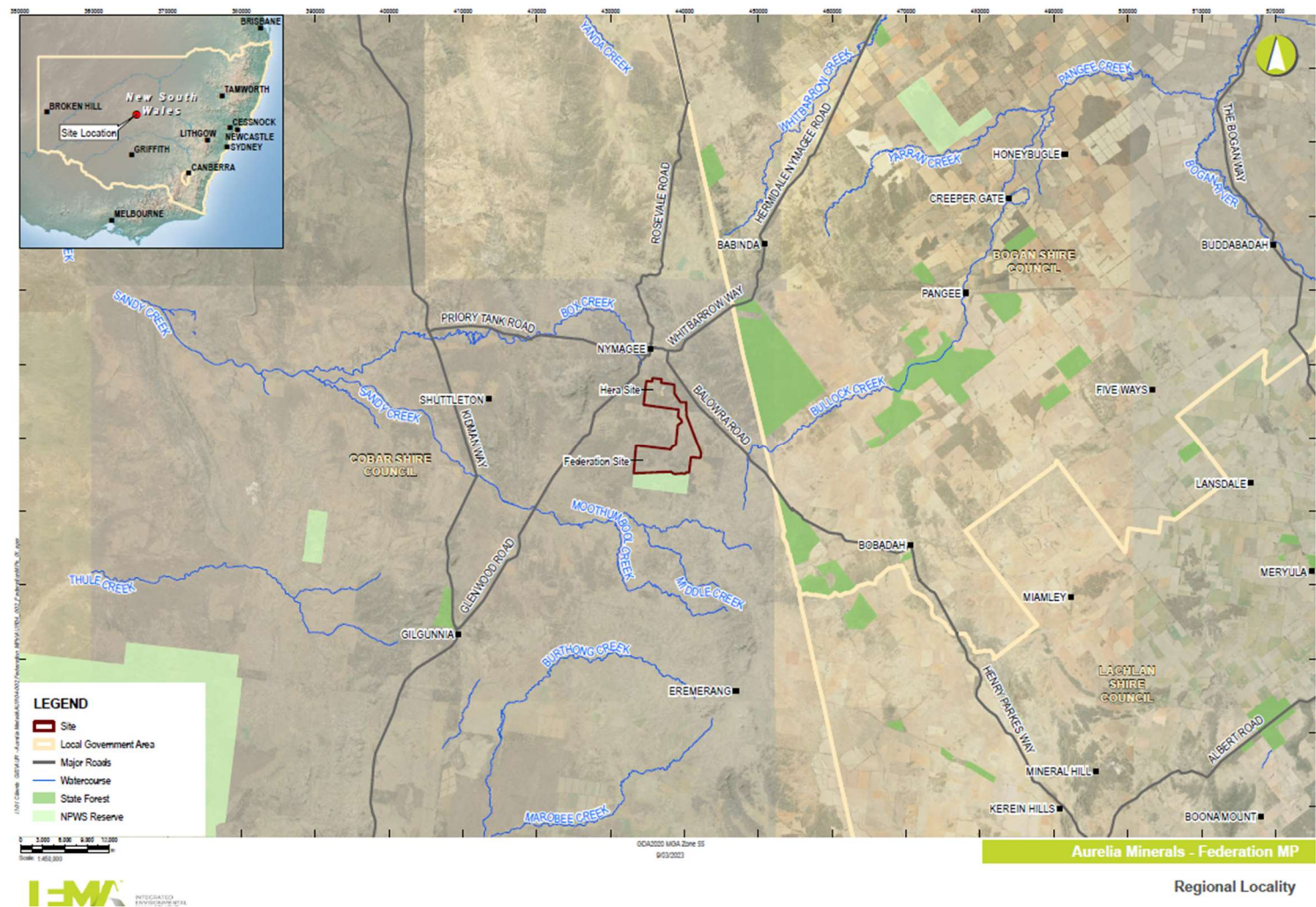


Figure 1 – Hera-Federation regional locality



Figure 2 – Hera Surface Water Monitoring Locations



Figure 3 – Federation Surface Water Monitoring Locations

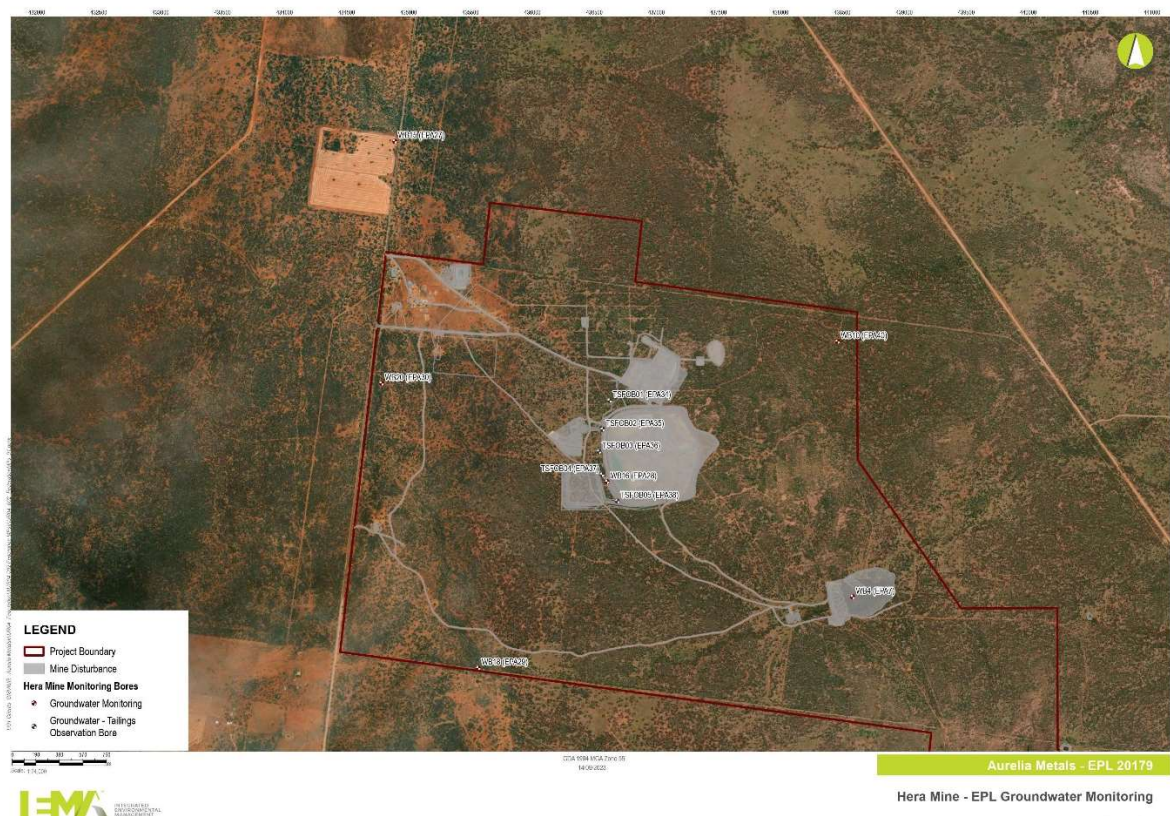


Figure 4 – Hera Groundwater Monitoring Locations



Figure 5 – Federation Groundwater Monitoring Locations



Figure 6 – Federation Groundwater Monitoring bores

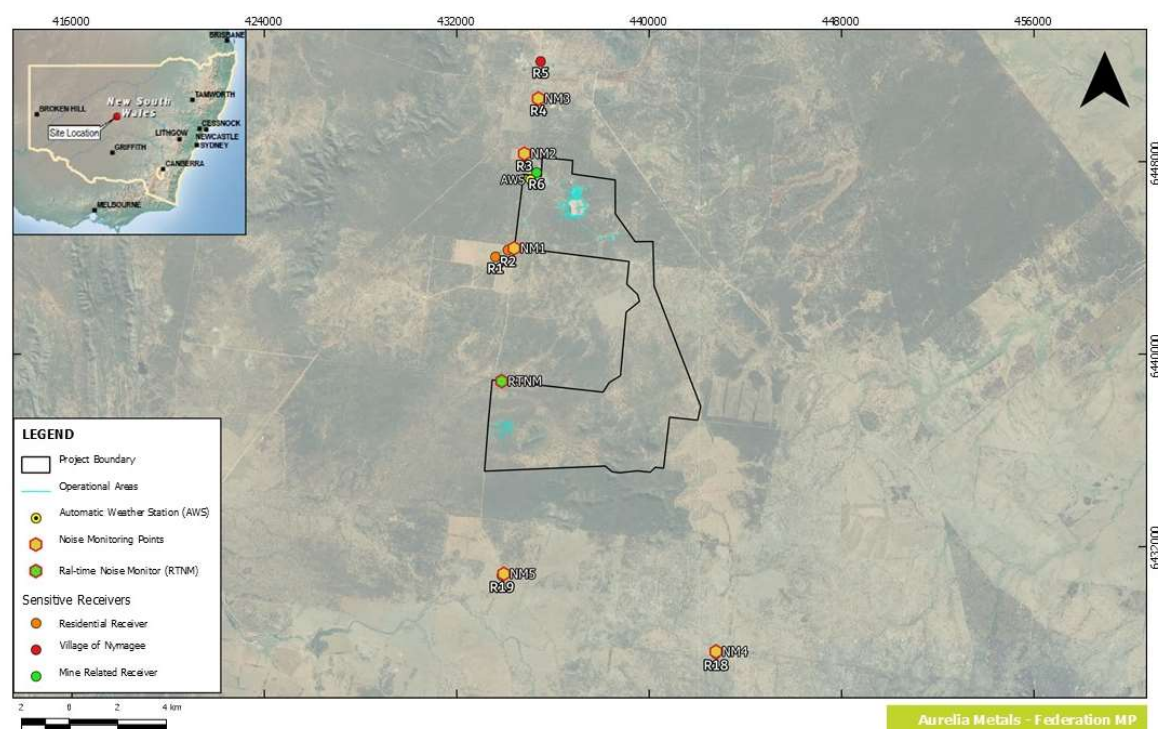


Figure 7 – Hera-Federation Noise Monitoring locations



5.1. Weather

Meteorological monitoring is conducted on a continuous basis. **Table 1** shows a summary of the data collected by the weather station this month. **Figure 9** is the wind rose for the month of July 2025.

TABLE 1: Summary of meteorological data for July 2025

Parameter	No. of measurements for the month	Minimum Value	Mean Value	Median Value	Maximum value	Total
Air Temperature (°C)	Continuous	0.35	13.27	13.11	25.26	-
Wind Speed (m/s)	Continuous	0.00	6.09	5.12	23.75	-
Sigma Theta (°)	Continuous	1.63	19.95	16.31	97.81	-
Rainfall (mm)	Continuous	0.00	0.01	0.00	2.80	26
Relative Humidity (%)	Continuous	22.80	66.71	67.91	98.56	-

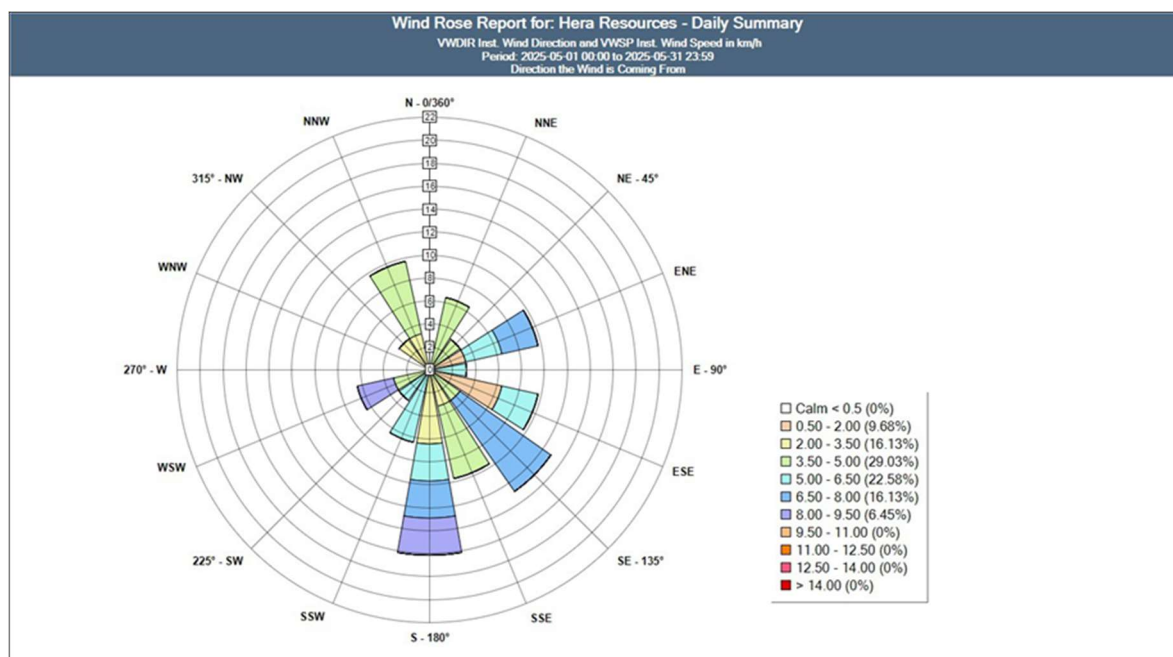


Figure 9 - Wind Rose for July 2025

5.2. Water

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.

Surface Water

Hera has 6 licence points associated with surface water. Four of these points are located within the mining lease and two are located off the mining lease, with one upstream and another downstream of the lease, refer **Figure 2**. Due to the Hera site being in a Care and Maintenance phase no processing was completed during July 2025. As a result, there were no surface water quality results for licence points.

Federation has 3 surface monitoring points (refer to **Figure 3**), all of which are triggered upon discharge. No discharge occurred during July 2025

Groundwater

Hera has 11 licence points associated with groundwater. These points are located around the Project Area, (refer **Figure 4**) and are a combination of observation bores, productions bores and piezometers. Monitoring is conducted quarterly for SWL and water chemistry is completed annually. Annual sampling was completed in June 2025.

Federation has 16 licence points associated with groundwater (Refer to **Figure 5** and **Figure 6**). Monitoring is conducted quarterly for SWL and water chemistry and was completed in June 2025.

5.3. Noise

The Company has six licenced monitoring points (R1, R2, R3, R4 and R18, R19) located along the Burthong and Balowra Road (**Figure 7**). The locations are strategically placed near the Hera-Federation's nearest neighbours. R1 and R2 are measured from the same point as both neighbours are in very close proximity to each other.

The annual noise assessment was carried out by Muller Accoustic Consulting in June 2025. Results were presented in the June 2025 monthly website report and the 2025 Annual Review.

Hera holds a Noise and Blast agreement with the Landholder of R3. The agreement has been provided to the EPA and the Department of Planning Housing and Infrastructure (DPHI).

5.4. Blast Monitoring

The blast monitor is located between the mining operations and the nearest residential receiver (**Figure 7**).

During November 2024 DPHI was notified that Hera-Federation had commenced mining with associated blasting.

Hera holds a Noise and Blast agreement with the Landholder of R3. The agreement has been provided to the EPA and DPHI.

A total of 82 blasts were completed during the month with no exceedances of blasting criteria. Blast monitoring results are presented in **Table 2**.

TABLE 2: Blast monitoring results for July 2025

Date	Time	Vibration (mm/s)	Overpressure (dB)
1/07/2025	6:30	0.03	79.9
1/07/2025	18:45	0.01	82.8
2/07/2025	6:30	0.01	75.6
2/07/2025	18:34	0.02	82.8
3/07/2025	6:30	0.02	78.6
3/07/2025	18:30	0.01	77.0
4/07/2025	2:45	0.02	83.0
4/07/2025	6:40	0.02	79.0
4/07/2025	18:40	0.02	73.3
5/07/2025	6:30	0.02	81.9
5/07/2025	18:40	0.02	82.8
6/07/2025	6:30	0.03	73.3
6/07/2025	18:30	0.02	78.2
7/07/2025	6:35	0.02	72.6
7/07/2025	18:30	0.02	78.2
8/07/2025	7:00	0.03	77.0
8/07/2025	18:30	0.02	78.2
8/07/2025	23:20	0.03	75.6
9/07/2025	5:45	0.02	81.4
9/07/2025	18:30	0.02	73.9
10/07/2025	6:30	0.02	84.6
10/07/2025	15:00	0.03	103.5
10/07/2025	18:55	0.18	74.5
11/07/2025	6:35	0.02	73.9
11/07/2025	18:20	0.02	73.9

Date	Time	Vibration (mm/s)	Overpressure (dB)
12/07/2025	6:30	0.02	80.5
12/07/2025	14:30	0.02	85.1
12/07/2025	18:30	0.02	73.9
13/07/2025	6:30	0.02	81.1
13/07/2025	18:30	0.02	74.5
13/07/2025	22:40	0.01	76.1
14/07/2025	6:30	0.02	77.8
14/07/2025	18:30	0.02	76.6
15/07/2025	6:50	0.02	75.1
15/07/2025	18:20	0.02	78.2
16/07/2025	4:45	0.01	80.2
16/07/2025	18:30	0.01	77.4
17/07/2025	3:30	0.02	80.5
17/07/2025	6:30	0.01	79.3
17/07/2025	18:30	0.03	75.6
18/07/2025	6:30	0.02	78.2
18/07/2025	18:30	0.02	77.0
19/07/2025	0:30	0.03	73.9
19/07/2025	5:30	0.02	83.7
19/07/2025	6:30	0.05	81.1
19/07/2025	18:45	0.03	73.9
20/07/2025	6:30	0.03	79.9
20/07/2025	18:30	0.02	73.3
20/07/2025	22:00	0.03	74.5
21/07/2025	6:30	0.02	82.4
21/07/2025	18:30	0.07	73.9
21/07/2025	19:20	0.02	72.6
22/07/2025	6:30	0.02	93.0
22/07/2025	14:53	0.02	82.1
22/07/2025	18:30	0.02	77.0
22/07/2025	21:30	0.02	73.9
22/07/2025	23:45	0.01	77.8
23/07/2025	6:00	0.02	77.0
23/07/2025	18:30	0.02	74.5
24/07/2025	6:30	0.02	79.3
24/07/2025	15:30	0.02	77.4
24/07/2025	18:55	0.02	73.9
25/07/2025	6:30	0.02	102.2
25/07/2025	8:00	0.10	85.3

Date	Time	Vibration (mm/s)	Overpressure (dB)
25/07/2025	19:00	0.02	104.1
25/07/2025	20:30	0.14	97.8
26/07/2025	1:15	0.02	93.5
26/07/2025	6:30	0.02	89.1
26/07/2025	19:00	0.02	97.8
27/07/2025	0:15	0.02	91.5
27/07/2025	6:30	0.02	105.3
27/07/2025	18:30	0.02	82.6
28/07/2025	4:15	0.02	78.2
28/07/2025	6:30	0.02	76.6
28/07/2025	18:30	0.02	77.0
29/07/2025	7:00	0.03	80.2
29/07/2025	18:30	0.02	75.6
30/07/2025	5:30	0.01	81.1
30/07/2025	18:30	0.02	81.4
31/07/2025	6:30	0.03	79.0
31/07/2025	13:00	0.04	92.1
31/07/2025	18:45	0.02	82.4

5.5. Air Quality

Two High Volume Air Samplers (HVAS), designed to sample Particulate matter less than 10 µm (PM10) or Total Suspended Particulate (TSP) matter an EBAM and two E-samplers form the Hera-Federation air quality monitoring network (refer to **Figure 8**).

Results for air quality monitoring conducted in July 2025 have been summarised in **Table 3**. No exceedances of criteria occurred during July.

EBAM and E-Sampler results are presented in **Figure 10**.

TABLE 3: Summary of HVAS monitoring results for July 2025

Pollutant	Unit	Limit	Averaging Period	Result
TSP	µg/m ³	90	Annual	39.27
PM-10	µg/m ³	25	Annual	14.24
High Volume Air Sampler (PM ₁₀)				
5/07/2025	µg/m ³	50	24 Hour	7.4
11/07/2025	µg/m ³	50	24 Hour	8.3
17/07/2025	µg/m ³	50	24 Hour	16.4
23/07/2025	µg/m ³	50	24 Hour	4.2
29/07/2025	µg/m ³	50	24 Hour	0.8

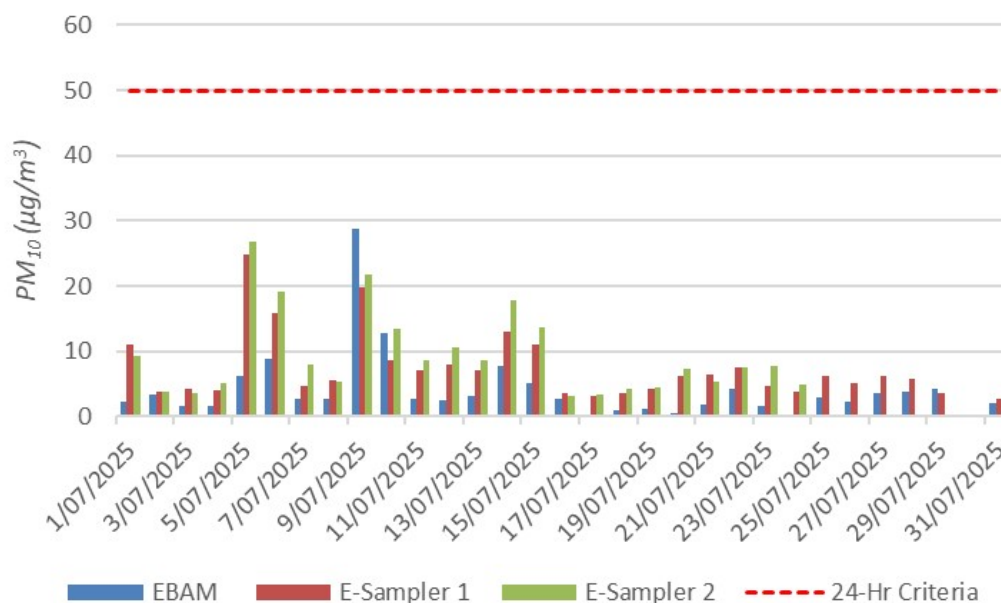


Figure 10 – EBAM plus, E-Sampler 1 and E-Sampler 2 PM₁₀ Daily Average Concentration – July 2025

5.6. Gold Room Stack Monitoring

Hera-Federation has two licenced gold room stack monitoring points (Refer to **Figure 8**).

The Hera site is on Care and Maintenance and no stack monitoring will be undertaken unless the gold room operations recommence.

5.7. Ore and Waste Rock Transport

The Company is licenced to transport 600,000 tonnes annually (FY) of ore from the Hera-Federation site to The Peak mine between 7am to 10pm daily.

During November 2024 DPHI was notified that Hera-Federation had commenced mining and trucking of ore to The Peak Mine.

Truck movements per day and quantity of ore transported is presented in **Table 4**.

TABLE 4: Truck movements and quantity trucked to Peak Mine for July 2025

Date	No. truck movements*/day	Quantity (Dry tonnes)
1-Jul	32	1185.5
2-Jul	32	1120.7
3-Jul	26	984.15
4-Jul	18	695.55
5-Jul	20	770.25
6-Jul	20	773.05
7-Jul	0	0
8-Jul	24	909.9
9-Jul	18	694.35
10-Jul	18	647.45
11-Jul	20	724.3

Date	No. truck movements*/day	Quantity (Dry tonnes)
12-Jul	26	1004.85
13-Jul	20	771.85
14-Jul	0	0
15-Jul	0	0
16-Jul	12	463.9
17-Jul	24	926.3
18-Jul	26	988.95
19-Jul	30	1110.65
20-Jul	20	740
21-Jul	0	0
22-Jul	20	737.95
23-Jul	32	1186.2
24-Jul	26	1005.15
25-Jul	24	911.45
26-Jul	22	830.45
27-Jul	8	308.95
28-Jul	0	0
29-Jul	26	985.7
30-Jul	0	0
31-Jul	30	1128.75
TOTAL		21 606.30

** Note: A return trip from Federation to Peak Mine and back is considered to be 2 movements.*

5.8. Concentrate Transport

The Company is licenced to transport 155,000 tonnes of lead/zinc concentrate from the Hera site to Hermidale rail siding from 7am to 7pm daily.

The Federation site does not produce concentrate.

The Hera site is on Care and Maintenance and no concentrate movements have occurred during July 2025

5.9. Complaints

There were no complaints in July 2025.