

HERA-FEDERATION MONTHLY ENVIRONMENTAL
MONITORING SUMMARY DECEMBER 2025



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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 December 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

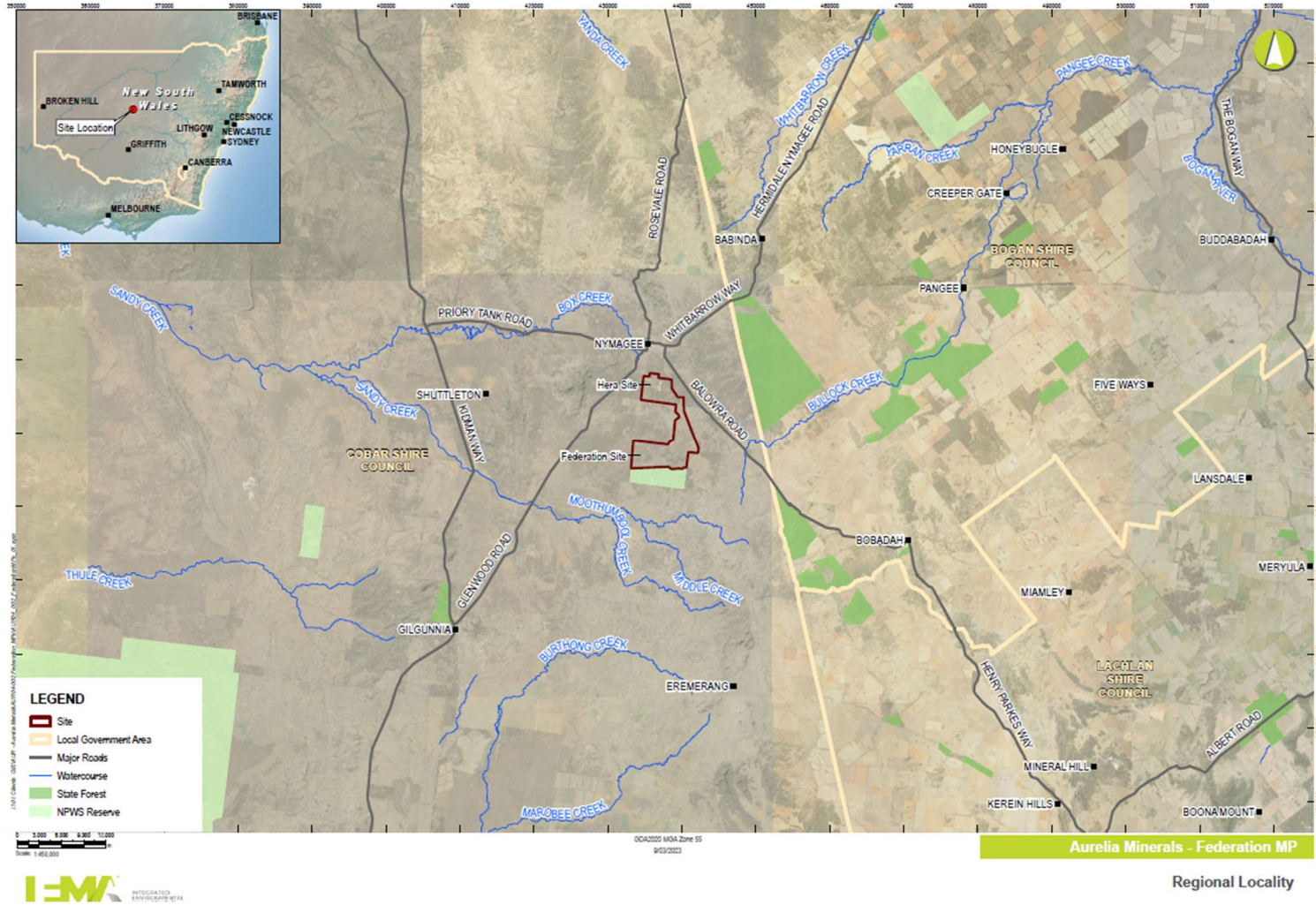


Figure 1 - Hera-Federation regional locality



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

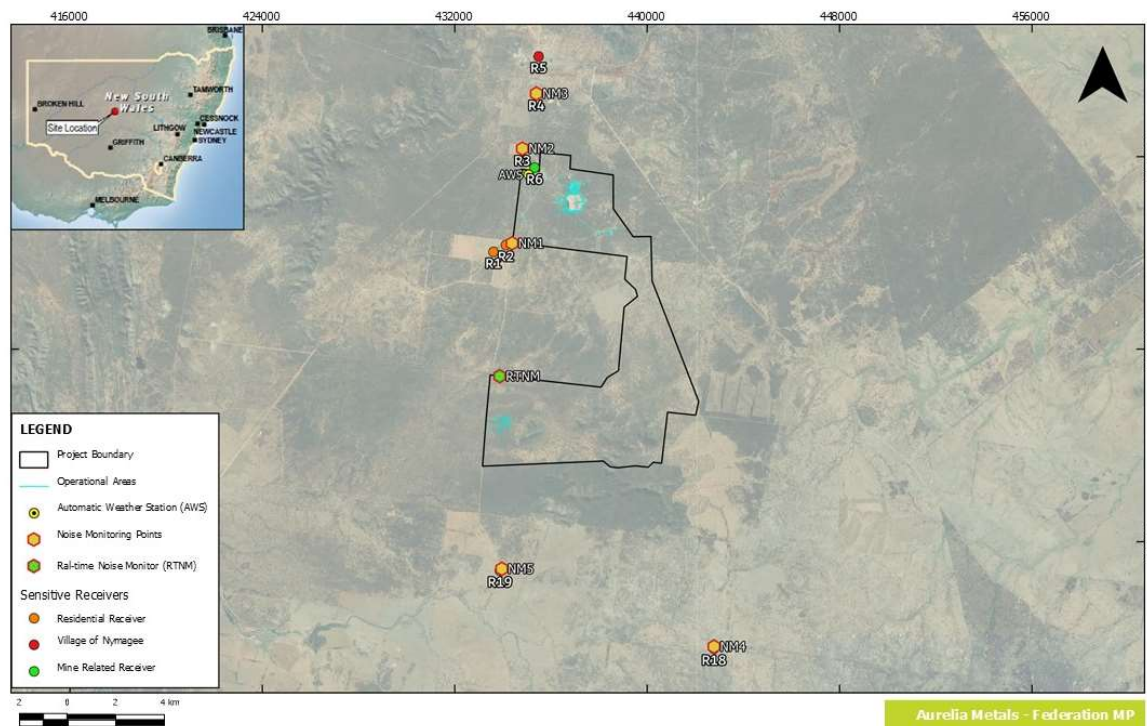


Figure 7 – Hera-Federation Noise Monitoring Locations



Figure 8 – Hera-Federation Air Quality Monitoring Locations

5. Monitoring Results

5.1. Weather

The meteorology monitoring data is acquired through Hera’s weather station located on the Hera Mine site, approximately 4km south of the town of Nymagee, NSW, Refer **Figure 1**.

Meteorological monitoring is conducted on a continuous basis. **Table 1** shows a summary of the data collected by the weather station this month. There has been an ongoing issue with the temperature sensor on the weather station. Intermittently the sensor defaults to -20 which has been shown as the minimum value in the table below. In addition to an issue with the temperature sensor the rain guage at the station failed to register rainfall events during December. Cleaning of the unit has been undertaken and a service of the weather station scheduled for February 2026. **Figure 9** is the wind rose for the month of December 2025.

TABLE 1: Summary of meteorological data for December 2025

Parameter	No. of measurements for the month	Minimum Value	Mean Value	Median Value	Maximum value	Total
Air Temperature (°C)	Continuous	-20.00	23.57	24.06	39.61	-
Wind Speed (m/s)	Continuous	0.00	8.41	8.10	35.31	-
Sigma Theta (°)	Continuous	2.16	24.57	19.79	100.14	-
Rainfall (mm)	Continuous	0.00	0.00	0.00	0.00	0.00
Relative Humidity (%)	Continuous	7.15	38.66	32.81	99.19	-

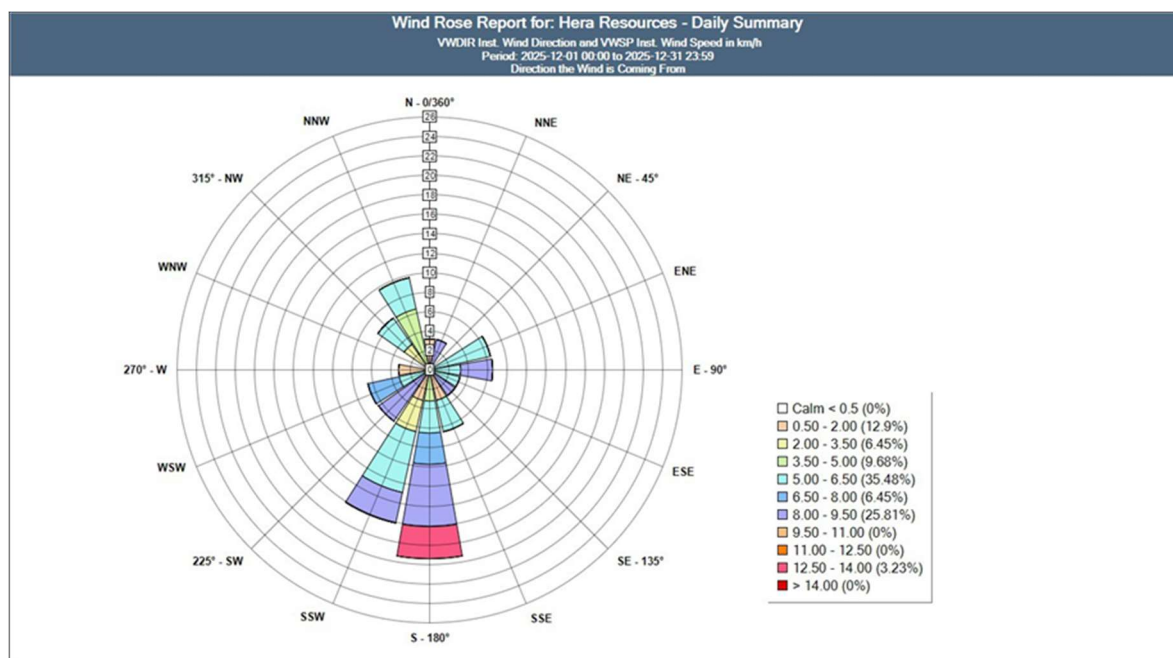


Figure 9 - Wind Rose for December 2025

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 December 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 December 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, production bores and piezometers. Monitoring is conducted quarterly for SWL and water chemistry is completed annually. Annual sampling was completed in June 2025 and results are presented in the June website report as well as the Hera-Federation Annual Review. Quarterly SWL monitoring was completed in December, and results are presented in **Figure 10**.

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 December 2025 and results are presented in **Figure 11** and **Table 2** and **3**. Please note that FMB7-10 were not constructed prior to March 2025.

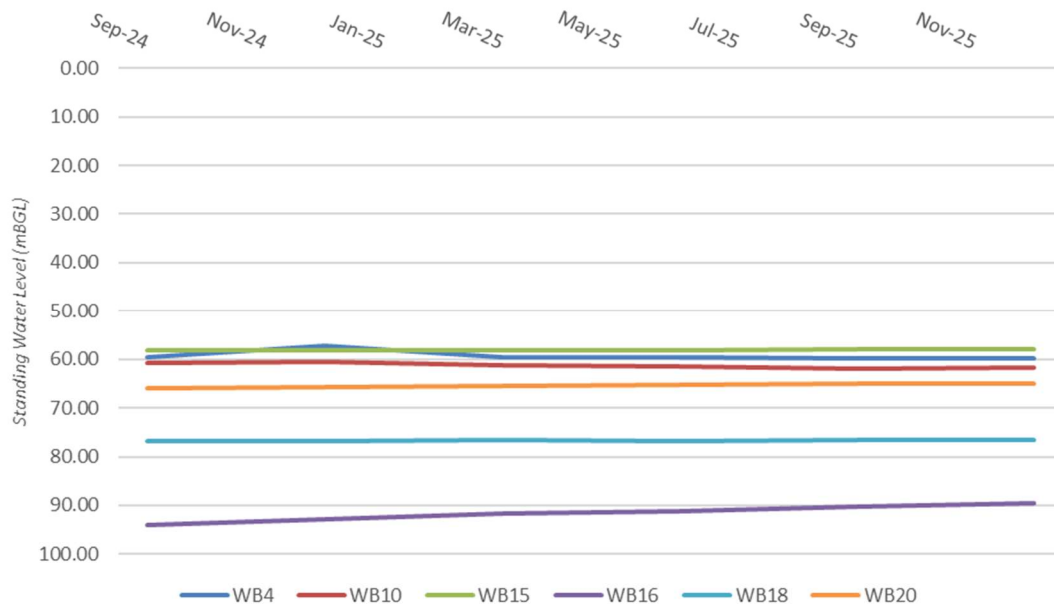


Figure 10 - Standing Water Levels - Hera Groundwater - December 2025

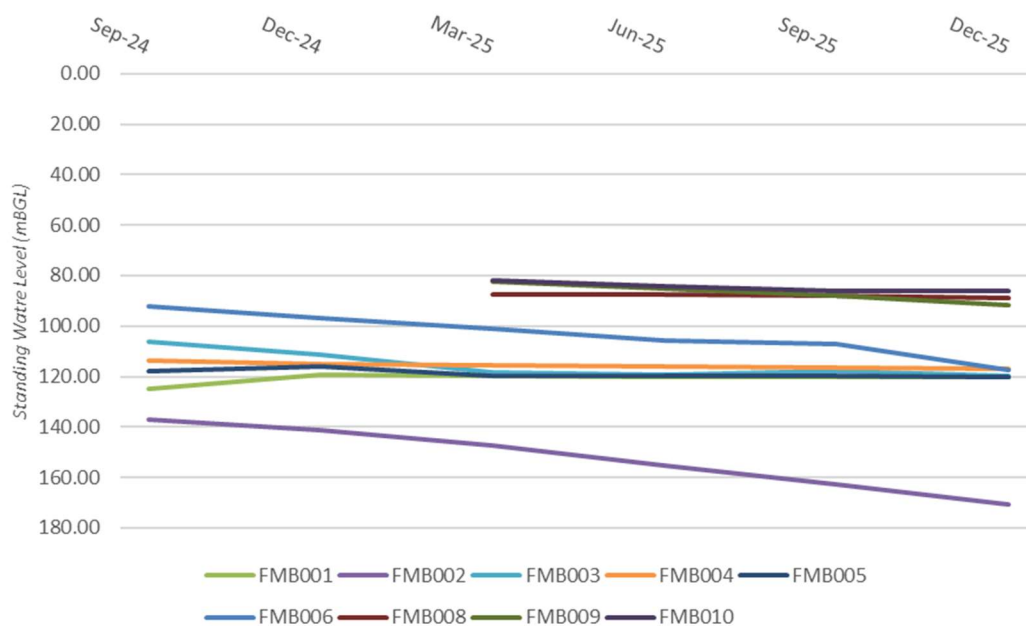


Figure 11 - Standing Water Levels - Federation Groundwater - December 2025

TABLE 2: Summary of Federation groundwater monitoring results for december 2025

Licence Point	Analyte (mg/L)													
	Sb	As	HCO3-	B	Cd	Ca	CO3-2	Cl	Cr	Cu	CN-(Free)	CN-(Total)	CN-(WAD)	EC (mS/cm)
FMB001	Too low to sample													
FMB002	0.006	0.001	349	0.31	<0.0001	90	<1	1200	<0.001	<0.001	<0.004	<0.004	<0.004	4660
FMB003	Field sample only – too low to sample													
FMB004	0.002	0.002	380	0.29	0.0005	143	<1	833	<0.001	0.005	<0.004	<0.004	<0.004	4080
FMB005	Too low to sample													
FMB006	<0.001	<0.001	249	0.5	<0.0001	449	<1	4040	<0.001	<0.001	<0.004	<0.004	<0.004	12200
FMB007	Mud at 73.33m													
FMB008	<0.001	0.008	665	0.47	<0.0001	114	<1	809	<0.001	<0.001	<0.004	<0.004	<0.004	4360
FMB009	<0.001	<0.001	567	0.39	<0.0001	139	<1	835	<0.001	<0.001	<0.004	<0.004	<0.004	4040
FMB010	<0.001	<0.001	462	0.62	<0.0001	129	<1	1340	<0.001	<0.001	<0.004	<0.004	<0.004	5500
FMDD1	Dry at 7.90m													
FMDD2	Dry at 7.90m													
FMDD3	Dry at 8.30m													
FLLP01	Dry at 7.80m													
FLLP02	Dry at 8.0m													
FLLP03	Dry at 7.95m													
FLLP04	Dry at 7.40m													

TABLE 3: Summary of Federation groundwater monitoring results for December 2025

Licence Point	Analyte (mg/L)													SWL (m)
	Fe	Pb	Mg	Hg	Mo	Ni	pH	K	Ag	Na	Sn*	TDS	Zn	
FMB001	Too low to sample													120.40
FMB002	<0.05	170.49	118	<0.0001	<0.001	0.004	7.57	16	<0.001	690	<0.001	2670	0.057	170.49
FMB003	Field sample only - Too low to sample													119.80
FMB004	<0.05	117.15	177	<0.0001	<0.001	0.023	8.20	27	<0.001	438	<0.001	2570	0.043	117.15
FMB005	Too low to sample													120.09
FMB006	0.5	117.47	513	<0.0001	<0.001	0.002	7.49	37	<0.001	1290	<0.001	8220	0.016	117.47
FMB007	Mud at 73.3m													
FMB008	1.17	<0.001	146	<0.0001	<0.001	0.004	7.68	16	<0.001	622	<0.001	2920	0.011	88.71
FMB009	0.45	<0.001	154	<0.0001	<0.001	0.002	7.54	18	<0.001	506	<0.001	2330	0.009	91.91
FMB010	0.44	<0.001	159	<0.0001	<0.001	<0.001	7.62	25	<0.001	776	<0.001	3200	0.012	89.94
FMDD1	Dry at 7.90m													
FMDD2	Dry at 7.90m													
FMDD3	Dry at 8.30m													
FLLP01	Dry at 7.80m													
FLLP02	Dry at 8.0m													
FLLP03	Dry at 7.95m													
FLLP04	Dry at 7.40m													

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 on 3rd and 4th of June 2025. Results were presented in the June website report as well as the Hera-Federation 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.

Blasting is scheduled to be undertaken at 6.30am and 6.30pm however there may be instances of blasting outside these times.

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 65 blasts were completed during the month. Blast monitoring results are presented in **TABLE 4**. There were no blast exceedances in December 2025.

TABLE 4: Blast monitoring results for December 2025

Date	Time	Vibration (mm/s)	Overpressure (dB)
01/12/2025	06:08	0.02	84.8
01/12/2025	06:38	0.08	86.0
01/12/2025	18:44	0.08	81.9
02/12/2025	06:54	0.02	72.6
02/12/2025	18:34	0.02	85.6
03/12/2025	04:47	0.02	85.0
03/12/2025	18:29	0.02	73.9
04/12/2025	06:20	0.02	83.7
04/12/2025	13:48	0.02	96.1
04/12/2025	18:24	0.02	84.1
05/12/2025	02:14	0.02	85.0
05/12/2025	06:26	0.02	82.8
05/12/2025	18:38	0.01	92.6
06/12/2025	06:22	0.02	85.8
06/12/2025	18:40	0.03	75.1
07/12/2025	06:19	0.02	73.9
07/12/2025	18:41	0.02	79.3

Date	Time	Vibration (mm/s)	Overpressure (dB)
08/12/2025	00:30	0.01	81.6
08/12/2025	06:27	0.02	86.0
09/12/2025	06:20	0.02	84.1
10/12/2025	02:57	0.01	80.5
10/12/2025	18:36	0.02	86.1
11/12/2025	04:29	0.01	83.5
11/12/2025	06:28	0.02	85.0
12/12/2025	06:10	0.08	80.5
12/12/2025	18:48	0.02	90.0
13/12/2025	17:33	0.03	82.6
13/12/2025	18:36	0.01	83.7
14/12/2025	06:45	0.02	73.3
15/12/2025	06:39	0.03	83.5
15/12/2025	18:22	0.02	94.9
16/12/2025	06:25	0.02	82.8
16/12/2025	18:29	0.10	84.2
17/12/2025	05:02	0.04	94.6
17/12/2025	18:33	0.02	79.6
18/12/2025	06:27	0.06	80.2
18/12/2025	18:32	0.02	77.8
19/12/2025	06:38	0.10	81.6
19/12/2025	18:49	0.01	77.4
20/12/2025	01:20	0.02	77.4
20/12/2025	18:06	0.21	79.0
21/12/2025	06:51	0.02	91.1
21/12/2025	18:31	0.04	84.4
22/12/2025	06:30	0.03	88.7
22/12/2025	18:34	0.03	81.6
23/12/2025	06:27	0.02	81.1
23/12/2025	18:17	0.02	78.6
24/12/2025	05:19	0.02	88.5
24/12/2025	18:30	0.03	90.8
25/12/2025	06:36	0.02	81.1
25/12/2025	11:57	0.02	100.8
25/12/2025	18:25	0.03	101.5
26/12/2025	06:27	0.03	85.6
26/12/2025	18:23	0.01	104.2
27/12/2025	06:44	0.03	84.8
27/12/2025	18:17	0.03	81.9

Date	Time	Vibration (mm/s)	Overpressure (dB)
28/12/2025	06:34	0.02	85.5
28/12/2025	18:18	0.03	93.5
29/12/2025	06:26	0.02	93.0
29/12/2025	06:50	0.14	100.8
29/12/2025	18:32	0.01	79.0
30/12/2025	06:34	0.01	82.6
30/12/2025	18:20	0.05	78.2
31/12/2025	06:14	0.01	83.0
31/12/2025	18:51	0.02	92.0

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 December 2025 have been summarised in **TABLE 5**. No exceedances were recorded.

EBAM and E-Sampler results are presented in **Figure 12**. E-Sampler 1 experienced an instrument fault during December and has since been removed and replaced with an additional monitor. Results from this location will be reporting in the next monthly report.

TABLE 5: Summary of HVAS monitoring results for December 2025

Pollutant	Unit	Limit	Averaging Period	Result
TSP	µg/m ³	90	Annual	34.72
PM-10	µg/m ³	25	Annual	13.06
High Volume Air Sampler (PM₁₀)				
2/12/2025	µg/m ³	50	24 Hour	4.5
8/12/2025	µg/m ³	50	24 Hour	11.8
14/12/2025	µg/m ³	50	24 Hour	11.5
20/12/2025	µg/m ³	50	24 Hour	14.9
26/12/2025	µg/m ³	50	24 Hour	15.1

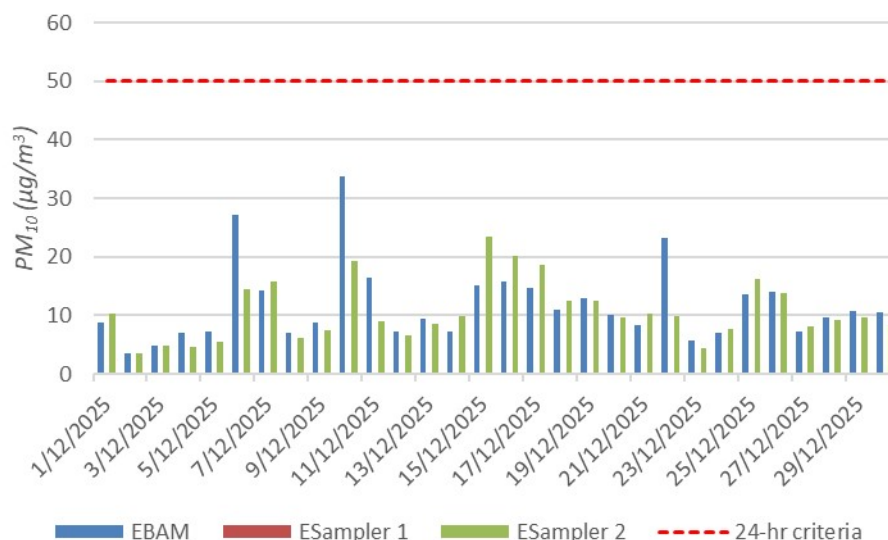


Figure 12 – EBAM plus, E-Sampler 1 and E-Sampler 2 PM₁₀ Daily Average Concentration – December 2025

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 6**.

TABLE 6: Truck movements and quantity trucked to Peak Mine for December 2025

Date	No. truck movements*/day	Quantity (Dry tonnes)
1-Dec	14	543.7
2-Dec	26	1011.5
3-Dec	32	1243.7
4-Dec	34	1323.90
5-Dec	26	1011.3
6-Dec	34	1266.55
7-Dec	14	469.85
8-Dec	20	716.35
9-Dec	24	917.35
10-Dec	20	779.55
11-Dec	24	916.65
12-Dec	32	1185.2

Date	No. truck movements*/day	Quantity (Dry tonnes)
13-Dec	18	702.15
14-Dec	20	761.65
15-Dec	0	0
16-Dec	42	1581.35
17-Dec	36	1404.78
18-Dec	30	1167.6
19-Dec	36	1379
20-Dec	36	1405.7
21-Dec	22	859.15
22-Dec	0	0
23-Dec	22	862.6
24-Dec	16	628.05
25-Dec	2	0
26-Dec	2	0
27-Dec	2	0
28-Dec	4	122.9
29-Dec	26	990.25
30-Dec	20	764.9
31-Dec	18	679.75
TOTAL		24 695.43

** 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 December 2025

5.9. Complaints

No complaints were received this month.