HERA-FEDERATION MONTHLY ENVIRONMENTAL MONITORING SUMMARY APRIL 2025

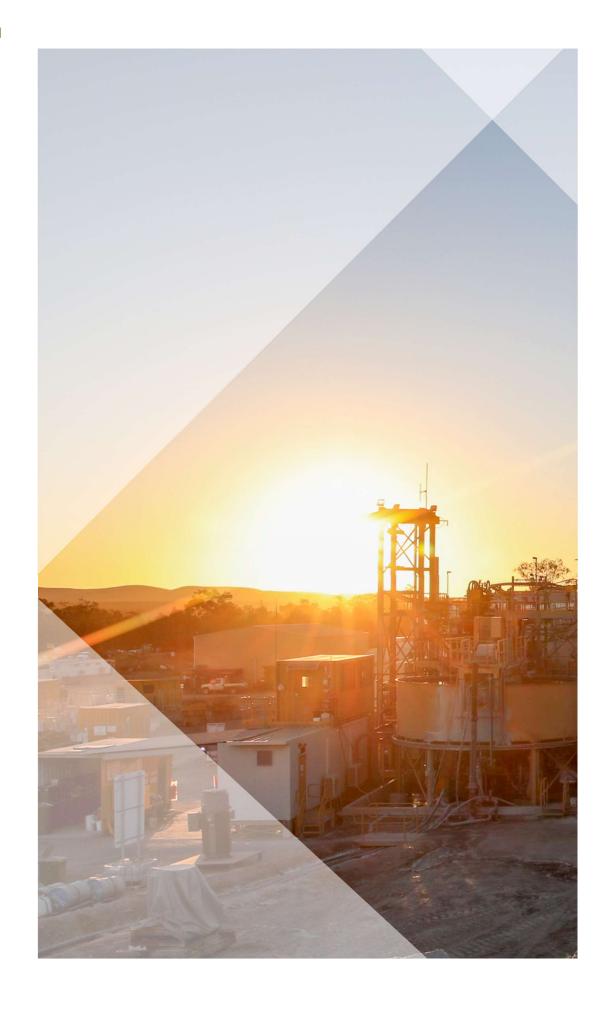


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Version	1.0
Date Created	May 2025
Review Date	September 2025

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 April 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 disslved 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		
CN WAD	Weak Acid Dissociable Cyanide (includees 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. **Figure 9** is the wind rose for the month of April 2025.

TABLE 1: Summary of meteor	ological data for April 2025
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Parameter	No. of measurements for the month	Minimum Value	Mean Value	Median Value	Maximum value	Total
Air Temperature (°C)	Continuous	2.47	17.47	17.54	29.03	-
Wind Speed (m/s)	Continuous	0.00	5.87	5.05	20.14	-
Sigma Theta (°)	Continuous	1.36	23.81	18.63	99.02	-
Rainfall (mm)	Continuous	0.00	0.00	0.00	0.40	1.60
Relative Humidity (%)	Continuous	20.13	60.83	61.96	97.84	-

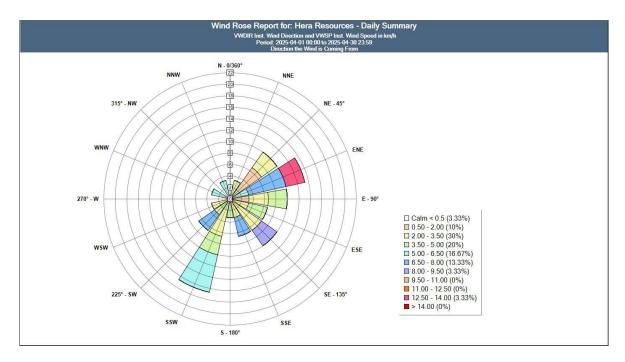


Figure 9 - Wind Rose for April 2025

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 Mainenance phase no processing was completed during April 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 April 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 2024 and quarterly SWL monitoring in March 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 March 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 on 13 to 16th May 2024. Results were presented in the May 2024 monthly website report.

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 68 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 April 2025

	<u> </u>		
Date	Time	Vibration (mm/s)	Overpressure (dB)
1/04/2025	6:30	0.01	76.1
1/04/2025	7:51	0.02	84.1
1/04/2025	18:49	0.02	74.5
2/04/2025	18:31	0.04	74.5
3/04/2025	6:30	0.02	73.3
3/04/2025	15:39	0.02	73.9
4/04/2025	6:28	0.02	75.1
4/04/2025	14:38	0.02	92.1
4/04/2025	18:59	0.03	74.5
5/04/2025	6:22	0.02	73.3
5/04/2025	14:04	0.02	82.4
5/04/2025	18:48	0.02	73.9
6/04/2025	5:15	0.01	73.3
6/04/2025	18:44	0.03	74.5
7/04/2025	6:30	0.01	72.6
7/04/2025	18:29	0.08	73.3
8/04/2025	6:32	0.02	75.1
8/04/2025	18:23	0.02	72.6
9/04/2025	5:59	0.01	71.8
9/04/2025	18:38	0.02	72.6
10/04/2025	2:04	0.02	73.3
10/04/2025	6:31	0.01	78.6
10/04/2025	18:37	0.02	71.8
11/04/2025	6:46	0.03	74.5
11/04/2025	18:40	0.01	71.0

12/04/2025 1:36 0.02 73.3 12/04/2025 6:37 0.02 92.1 13/04/2025 6:37 0.08 78.6 14/04/2025 2:44 0.08 75.6 14/04/2025 6:44 0.02 71.0 14/04/2025 18:29 0.01 71.8 15/04/2025 6:30 0.03 89.3 16/04/2025 4:58 0.02 72.6 16/04/2025 18:30 0.02 75.1 17/04/2025 0:24 0.03 72.6 17/04/2025 6:28 0.02 73.3 18/04/2025 18:35 0.02 73.3 18/04/2025 6:30 0.02 75.1 18/04/2025 18:30 0.01 70.1 19/04/2025 6:28 0.02 71.0 19/04/2025 18:23 0.02 70.1 20/04/2025 18:23 0.02 73.3 20/04/2025 18:27 0.02 92.4 21/04/2025 6:28 0.02 73.9	IB)
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20/04/2025 6:38 0.02 73.3 20/04/2025 18:27 0.02 92.4	
20/04/2025 18:27 0.02 92.4	
21/04/2025 6:28 0.02 72.0	
21/07/2023 0.20 0.02 13.9	
21/04/2025 16:04 0.02 88.9	
22/04/2025 6:37 0.02 71.8	
22/04/2025 18:31 0.01 79.0	
22/04/2025 19:45 0.01 71.8	
23/04/2025 1:51 0.02 73.3	
23/04/2025 18:33 0.01 71.0	
24/04/2025 6:32 0.02 84.6	
24/04/2025 18:40 0.04 74.5	
25/04/2025 4:00 0.01 71.0	
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26/04/2025 18:30 0.02 75.6	
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Date	Time	Vibration (mm/s)	Overpressure (dB)
29/04/2025	6:36	0.02	73.9
29/04/2025	18:42	0.02	75.6
30/04/2025	5:23	0.02	76.6
30/04/2025	18:40	0.02	72.6

5.5. Air Quality

Two High Volume Air Samplers (HVAS), designed to sample Particulate matter less than 10 μ m (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 April 2025 have been summarised in **TABLE** 3. Results for 24/4/25 indicate an exceedance of the 24 hour criteria. A non-compliance notification has been submitted to DPHI. An investigation into the exceedance and subsequent report will be completed and submitted to DPHI.

EBAM and E-Sampler results are presented in Figures 10.

TABLE 3: Summary of HVAS monitoring results for April 2025

Pollutant	Unit	Limit	Averaging Period	Result
TSP	μg/m³	90	Annual	38.21
PM-10	μg/m³	25	Annual	13.76
High Volume Air Sampler (F	PM ₁₀)			
6/04/2025	μg/m³	50	24 Hour	9.5
12/04/2025	μg/m³	50	24 Hour	17.0
18/04/2025	μg/m³	50	24 Hour	23.1
24/04/2025	μg/m³	50	24 Hour	79.1
30/04/2025	μg/m³	50	24 Hour	18.2

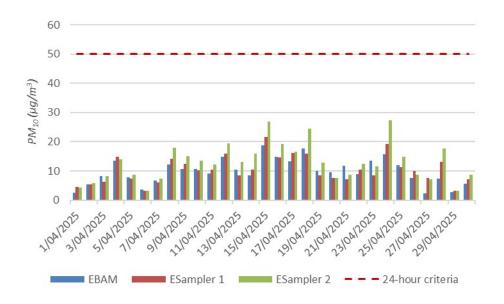


Figure 10 - EBAM plus PM₁₀ Daily Average Concentration - April 2025

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 for April 2025

Date	No. truck movements*/day	Quantity (Dry tonnes)
1-Apr	18	693
2-Apr	16	615.9
3-Apr	14	539.05
4-Apr	18	693.10
5-Apr	18	693.25
6-Apr	0	0
7-Apr	22	846.8
8-Apr	18	693.95
9-Apr	16	16.15
10-Apr	10	385.7
11-Apr	12	462.35
12-Apr	16	616
13-Apr	6	231.35
14-Apr	24	919.35
15-Apr	18	620.7
16-Apr	16	559.75
17-Apr	10	364.65
18-Apr	18	688.6
19-Apr	14	538.25
20-Apr	0	0
21-Apr	26	95.7
22-Apr	24	920.5
23-Apr	26	998
24-Apr	12	475.7

No. truck movements*/day	Quantity (Dry tonnes)
22	844.05
0	0
0	0
24	864.75
28	998.3
34	1282.65
	16 57.55
	22 0 0 24 28

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

5.8. Concentate 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 April 2025

5.9. Complaints

No complaints were received this month.