

Pine Dale Mine EPA Compliance Data - September 2021

M5 Monitoring of Pollution Complaints - Summary

Number of Complaints / Enquiries / Notifications - September 2021

Pollution Category	Number Received
Air	0
Water	0
Noise	0
Waste	0
Blast	0
Other	0
Enquiry / Notification	0

Notes:

Refer to Complaints register section of Energy Australia Pine Dale Mine website for further details.

M2 Requirement to Monitor Concentration of Pollutants Discharged

M2.2 Air Monitoring Requirements

	EPL Point 6	EPL Point 8	EPL Point 10	EPL Point 11	EPL Point 12
	Dust Gauge D1	Dust Gauge D3	Dust Gauge D4	Dust Gauge D5	Dust Gauge D6
Insoluble Solids sample results for September 2021 (g/m ³ per mth)	0.2	0.3	0.2	0.2	0.1
No of Samples required by licence for the period: 24/11/20 - 23/11/21	12	12	12	12	12
No of Samples collected & analysed: 24/11/2020 - 30/9/2021	10	10	10	10	10
Lowest Sample value (24/11/2020 - 30/9/2021)(g/m ³ per mth)	0.1	<0.1	0.1	<0.1	0.1
Mean of samples (24/11/2020 - 30/9/2021) (g/m ³ per mth)	0.6	0.6	0.3	0.3	0.3
Highest sample value (24/11/2020 - 30/9/2021) (g/m ³ per mth)	1.2	1.3	0.8	0.9	0.5

Half the detection limit is used in calculating the mean when concentrations are below the limit of reporting

TSP and PM10 monitoring requirements at EPL Point 9 was removed from the Environment Protection Licence on the 3 November 2020.



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Pine Dale Mine EPA Compliance Data - September 2021



14 October 2021

M2.3 Water Monitoring Requirements

		EPL Point 2	EPL Point 3	EPL Point 14
		Neubeck's Creek Upstream of Flow Gauge	Neubeck's Creek Downstream from Offices	Cox's River Downstream of Blue Lake
Sample results* for month of September 2021	pH	NA	NA	NA
	Conductivity (µS/cm)	NA	NA	NA
	Sulphate (mg/L)	NA	NA	NA
	Iron - filterable (mg/L)	NA	NA	NA
	TSS (mg/L)	NA	NA	NA
	Turbidity (NTU)	NA	NA	NA
No of Samples required by licence for the period: 24/11/20 - 23/11/21		4	4	4
No of Samples collected & analysed (24/11/2020 - 30/9/2021)		3	3	3

Notes:

NA - no samples required for monitoring period. Reporting year runs from 24 Nov 2020 to 23 Nov 2021
 * Pine Dale Mine does not have water quality licence limits for ambient water quality monitoring of Points 2, 3 & 14 in its EPL.
 Refer to Community Consultative Monthly Reports for Maps of Sample Locations

		EPL Point 13 Discharge to Neubecks Creek	EPL 100 percentile concentration limit
Sample results for month of September 2021	pH	NA	6.5 - 8.5
	Conductivity (µS/cm)	NA	
	Sulphate (mg/L)	NA	
	Iron (filterable)	NA	
	TSS (mg/L)	NA	30
	Turbidity (NTU)	NA	
	Oil & Grease (mg/L)	NA	10
No of Samples required by licence (24/11/20 - 23/11/21)		NA	
No of Samples collected & analysed (24/11/2020 - 30/9/2021)		NA	

Notes:

NA - no samples required for monitoring period due to no discharge events.
 Refer to Community Consultative Monthly Reports for Maps of Sample Locations

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L4 Noise Limits

	Location	Date	Start Time	Daytime Noise Level recorded dB (LAeq 15 minute)	PDM Noise Contribution (LAeq 15 minute)	Daytime Noise Limit dB (LAeq 15 minute)
Results for September 2021	NM1 (EPL Ref No. 33)	8/09/2021	8:00	59	Nil	42.0
			8:15	59		
	NM2 (EPL Ref No. 14)	8/09/2021	8:40	50	Nil	42.0
			8:55	49		
	NM3 (EPL Ref No. 10)	8/09/2021	9:20	58	Nil	42.0
			9:35	57		
	NM4 (EPL Ref No. 5)	8/09/2021	10:00	40	Nil	35.0
			10:15	42		
	NM5 (EPL Ref No. 4)	8/09/2021	11:25	55	Nil	35.0
			11:40	60		
	NM6 (EPL Ref No. 2)	8/09/2021	10:45	49	Nil	35.0
			11:00	56		

Notes:

NA - no samples required for monitoring period.

Nil –Noise source not audible during survey session

Noise monitoring is conducted at the same sites as depositional dust monitoring. Refer to Community Consultative Monthly Reports for maps of sample locations

L5 Blasting

Date	Park Street Blackmans Flat		Noon St.		Summer St.	
	Overpressure (dB)	Vibration (mm/sec)	Overpressure (dB)	Vibration (mm/sec)	Overpressure (dB)	Vibration (mm/sec)
No blasting undertaken during September 2021.						

Notes:

NT - no trigger of monitoring equipment recorded at this monitoring location.

EPL Blasting Limit for 95% of blasts:

- Airblast overpressure level of **115dB**
- Ground vibration peak velocity of **5mm/sec**

EPL Blasting Limit for 100% of blasts:

- Airblast overpressure level of **120dB**
- Ground Vibration peak velocity of **10mm/sec**



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M4 Weather Monitoring

Parameter required to be monitored	Monitoring Period Required	Compliance Achieved this Month
Air Temperature	Continuous	Yes
Wind Direction	Continuous	Yes
Wind Speed	Continuous	Yes
Sigma theta	Continuous	Yes
Rainfall	Continuous	Yes
Relative Humidity	Continuous	Yes



14 October 2021

Notes:

1. Refer to Community Consultative Committee Report for Weather Monitoring Data.