

## Pine Dale Mine EPA Compliance Data - September 2017

### M5 Monitoring of Pollution Complaints - Summary

#### Number of Complaints / Enquiries / Notifications - September 2017

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 7	EPL Point 8	EPL Point 10	EPL Point 11	EPL Point 12
	Dust Gauge D1	Dust Gauge D2	Dust Gauge D3	Dust Gauge D4	Dust Gauge D5	Dust Gauge D6
Insoluble Solids sample results for month of September 2017 (g/m <sup>2</sup> per mth)	0.6	0.5	0.2	0.3	0.5	0.6
No of Samples required by licence (24 Nov 2016 to 23 Nov 2017)	12	12	12	12	12	12
No of Samples collected & analysed (24 Nov 2016 to 23 Nov 2017)	10	10	10	10	10	10
Lowest Sample value (24 Nov 2016 to 23 Nov 2017) (g/m <sup>2</sup> per mth)	0.2	0.1	0.1	0.2	0.2	0.1
Mean of samples (24 Nov 2016 to 23 Nov 2017) (g/m <sup>2</sup> per mth)	0.6	0.4	0.5	0.6	0.5	1.0
Highest sample value (24 Nov 2016 to 23 Nov 2017) (g/m <sup>2</sup> per mth)	1.1	1.2	1.1	1.2	0.8	2.8

		EPL Point 9	EPL Point 9
		HVAS TSP	HVAS PM <sub>10</sub>
Sample results for month of September 2017 (µg/m <sup>3</sup> )	03-Sep-17	27	9
	09-Sep-17	16	1
	15-Sep-17	20	5
	21-Sep-17	28	7
	27-Sep-17	30	16
No of Samples required by licence (24 Nov 2016 to 23 Nov 2017)		61	61
No of Samples collected & analysed (24 Nov 2016 to 23 Nov 2017)		52	52
Lowest Sample value (24 Nov 2016 to 23 Nov 2017) (µg/m <sup>3</sup> )		3	<1
Mean of samples (24 Nov 2016 to 23 Nov 2017) (µg/m <sup>3</sup> )		20	10
Highest sample value (24 Nov 2016 to 23 Nov 2017) (µg/m <sup>3</sup> )		66	46

**Notes:**

Refer to Community Consultive Monthly Reports for Maps of Sample Locations



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### 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 2017	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 (24 Nov 2016 to 23 Nov 2017)		4	4	4
No of Samples collected & analysed (24 Nov 2016 to 23 Nov 2017)		3	3	3

**Notes:**

NA - no samples required for monitoring period.

Reporting year runs from 24 Nov 2015 to 23 Nov 2016

\* 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 Consultive 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 2017	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 -year to date		NA	
No of Samples collected & analysed -year to date		NA	

**Notes:**

NA - no samples required for monitoring period.

Refer to Community Consultive Monthly Reports for Maps of Sample Locations

## Pine Dale Mine EPA Compliance Data - September 2017

### L4 Noise Limits

	Location	Date	Time	Daytime Noise Level recorded dB (LAeq <sub>15</sub> minute)	PDM Noise Contribution (LAeq <sub>15</sub> minute)	Daytime Noise Limit dB (LAeq <sub>15</sub> minute)
Results for September 2017	NM1 (EPL Ref No. 33)	NA	NA	NA	NA	42.0
			NA	NA	NA	
	NM2 (EPL Ref No. 14)	NA	NA	NA	NA	42.0
			NA	NA	NA	
	NM3 (EPL Ref No. 10)	NA	NA	NA	NA	42.0
			NA	NA	NA	
	NM4 (EPL Ref No. 5)	NA	NA	NA	NA	35.0
			NA	NA	NA	
	NM5 (EPL Ref No. 4)	NA	NA	NA	NA	35.0
			NA	NA	NA	
	NM6 (EPL Ref No. 2)	NA	NA	NA	NA	35.0
			NA	NA	NA	

**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 Consultive 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 2017.						

**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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## Pine Dale Mine EPA Compliance Data - September 2017

### 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

**Notes:**

Refer to Community Consultive Committee Report for Weather Monitoring Data.