

**Pine Dale Mine EPA Compliance Data - July
2019**



M5 Monitoring of Pollution Complaints - Summary

Number of Complaints / Enquiries / Notifications - July 2019

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 month of July 2019 (g/m ² per mth)	0.3	0.4	0.2	0.1	0.2
No of Samples required by licence for the period: 24/11/18 - 23/11/19	12	12	12	12	12
No of Samples collected & analysed: 24/11/18-31/7/19	8	8	8	8	8
Lowest Sample value (24/11/18 - 31/7/2019) (g/m ² per mth)	0.3	0.4	0.2	0.1	0.2
Mean of samples (24/11/18 - 31/7/19) (g/m ² per mth)	1.6	1.7	1.8	1.4	1.4
Highest sample value (24/11/18 - 31/7/19) (g/m ² per mth)	3.3	3.4	4.2	4.3	3.0

		EPL Point 9	EPL Point 9
		HVAS TSP	HVAS PM ₁₀
Sample results for month of July 2019 (µg/m ³)	1-Jul-19	7	3
	7-Jul-19	6	
	13-Jul-19	6	1
	15-Jul-19 ^a		<1
	25-Jul-19	7	<1
	27-Jul-19 ^b	13	5
	31-Jul-19	5	1
No of Samples required by licence for the period: 24/11/18 - 23/11/19		5	1
No of Samples collected & analysed (24/11/18 - 31/7/19)		61	61
Lowest Sample value (24/11/18 - 31/7/19) (µg/m ³)		31	31
Mean of samples (24/11/18 - 31/7/19) (µg/m ³)		5	1
Highest sample value (24/11/18 - 31/7/19) (µg/m ³)		39	16

Notes:

Refer to Community Consultative Monthly Reports for maps of sample locations

^a PM₁₀ did not complete 24 ± 1 hour sampling period on the 13/7/2019, re-sampled on the 15/7/2019: Suspected electrical fault.

^b TSP and PM₁₀ did not complete 24 ± 1 hour sampling period on the 19/7/2019, re-sampled on the 27/7/2019: Suspected electrical fault.

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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 July 2019	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: 24/11/18 - 23/11/2019		4	4	4
No of Samples collected & analysed (24/11/18 - 31/7/19)		2	2	2

Notes:
 NA - no samples required for monitoring period. Reporting year runs from 24 Nov 2018 to 23 Nov 2019
 * 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 July 2019	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 (24/11/18 - 23/11/19)		NA	
No of Samples collected & analysed (24/11/18 - 31/7/19)		NA	

Notes:
 NA - no samples required for monitoring period due to no discharges.
 Refer to Community Consultive 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 July 2019	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 July 2019.						

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

Notes:

Refer to Community Consultive Committee Report for Weather Monitoring Data.



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