

Pine Dale Mine EPA Compliance Data

M5 Monitoring of Pollution Complaints - Summary

Number of Pollution Complaints

Pollution Category	Number of Complaints
Air	0
Water	0
Noise	0
Waste	0
Blast	1

Notes:

Refer to Complaints register section of Enhance Place 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
Sample results for month of July 2013 (g/m ² /mth)	1.0	0.9	1.1	0.4	0.2	3.6
No of Samples required by licence -year to date	12	12	12	12	12	12
No of Samples collected & analysed -year to date	8	8	8	8	8	8
Lowest Sample value -year to date (g/m ² /mth)	0.3	0.5	0.4	0.2	0.2	0.3
Mean of samples -year to date (g/m ² /mth)	1.0	0.8	0.9	0.7	0.5	1.1
Highest sample value -year to date (g/m ² /mth)	2.4	1.0	1.3	1.5	0.9	3.6



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		EPL Point 9	EPL Point 9
		HVAS TSP	HVAS PM10
Sample results for month of July 2013 ($\mu\text{g}/\text{m}^3$)	2-Jul-13	27	10
	8-Jul-13	25	12
	14-Jul-13	13	7
	20-Jul-13	9	3
	26-Jul-13	25	9
No of Samples required by licence -year to date		61	61
No of Samples collected & analysed -year to date		41	41
Lowest Sample value -year to date ($\mu\text{g}/\text{m}^3$)		3	1
Mean of samples -year to date ($\mu\text{g}/\text{m}^3$)		23.1	10.9
Highest sample value -year to date ($\mu\text{g}/\text{m}^3$)		62	30

Notes:

Refer to Community Consultive Monthly Reports for Maps of Sample Locations

M2.3 Water Monitoring Requirements

		EPL Point 2	EPL Point 3	EPL Point 14
		Neubecks Creek Upstream of Flow Gauge	Neubecks Creek Downstream from Offices	Cox's River Downstream of Blue Lake
Sample results* for Month of July 2013	pH	NA	NA	NA
	Conductivity ($\mu\text{S}/\text{cm}$)	NA	NA	NA
	Sulphate (mg/L)	NA	NA	NA
	Iron (filterable)	NA	NA	NA
	TSS (mg/L)	NA	NA	NA
	Turbidity (NTU)	NA	NA	NA
No of Samples required by licence -year to date		4	4	4
No of Samples collected & analysed -year to date		3	3	3

Notes:

NA - no samples required for monitoring period.

* 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

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		EPL Point 4	EPL Point 5	
		Wallerawang Colliery No. 1A Mine Entry	Wallerawang Colliery Punch Mine Entry	EPL limit
Sample results for Month of July 2013	pH	NA	NA	6.5 - 8.5
	Conductivity (µS/cm)	NA	NA	
	Sulphate (mg/L)	NA	NA	
	Iron (filterable)	NA	NA	
	TSS (mg/L)	NA	NA	50
	Turbidity (NTU)	NA	NA	
	Oil & Grease (mg/L)	NA	NA	10
No of Samples required by licence -year to date		NA	NA	
No of Samples collected & analysed -year to date		NA	NA	

Notes:

NA - no samples required for monitoring period.

Refer to Community Consultive Monthly Reports for Maps of Sample Locations

		EPL Point 13	
		Wallerawang Colliery No. 1A Mine Entry	EPL 100 percentile concentration limit
Sample results for Month of July 2013	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

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L4 Noise Limits



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	Location	Date & 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 2013	NM1 (EPL Ref No. 33)	25/06/2013 9:47	45.5	14.6	42
		25/06/2013 10:02	45.9	Nil	
		25/06/2013 10:17	45.2	Nil	
	NM2 (EPL Ref No. 14)	24/06/2013 16:08	49.9	Nil	42
		24/06/2013 16:23	50.7	Nil	
		24/06/2013 16:38	50.1	Nil	
	NM3 (EPL Ref No. 10)	24/06/2013 15:09	60.5	Nil	42
		24/06/2013 15:24	60.1	Nil	
		24/06/2013 15:39	58.8	Nil	
	NM4 (EPL Ref No. 5)	24/06/2013 14:14	45.5	Nil	35
		24/06/2013 14:29	39.2	18.0	
		24/06/2013 14:44	39.1	22.3	
	NM5 (EPL Ref No. 4)	24/06/2013 13:15	38.4	Nil	35
		24/06/2013 13:30	37.0	Nil	
		24/06/2013 13:45	40.7	Nil	
NM6 (EPL Ref No. 2)	24/06/2013 11:26	40.6	Nil	35	
	24/06/2013 11:41	40.8	Nil		
	24/06/2013 11:56	42.1	Nil		

Notes:

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

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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)
3/07/2013	96.9	0.4	99.4	0.41	NT	NT
11/07/2013	NT	NT	110.3	1.79	109.8	1.05
17/07/2013	NT	NT	112.6	1.64	107.1	1.44
26/07/2013	NT	NT	106.0	0.65	103.0	0.53
31/07/2013	NT	NT	99.0	0.42	100.0	0.40

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**

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.