

## 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              | 0                    |

#### 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 |
| Insoluble Solids sample results for month of November 2014 (g/m <sup>2</sup> per mth) | 1.2           | 1.1           | 1.2           | 0.7           | 1.9           | 0.9           |
| No of Samples required by licence (24 Nov 2013 to 23 Nov 2014)                        | 12            | 12            | 12            | 12            | 12            | 12            |
| No of Samples collected & analysed (24 Nov 2013 to 23 Nov 2014)                       | 12            | 11            | 12            | 12            | 11            | 11            |
| Lowest Sample value (24 Nov 2013 to 23 Nov 2014) (g/m <sup>2</sup> per mth)           | 0.3           | 0.2           | 0.1           | 0.2           | 0.1           | 0.2           |
| Mean of samples (24 Nov 2013 to 23 Nov 2014) (g/m <sup>2</sup> per mth)               | 1.5           | 0.6           | 0.8           | 0.5           | 0.7           | 0.5           |
| Highest sample value (24 Nov 2013 to 23 Nov 2014) (g/m <sup>2</sup> per mth)          | 9.5           | 1.2           | 1.7           | 1.3           | 1.9           | 1.1           |



16 December 2014

## Pine Dale Mine EPA Compliance Data



16 December 2014

|  |           | EPL Point 9 | EPL Point 9           |
|--|-----------|-------------|-----------------------|
|  |           | HVAS TSP    | HVAS PM <sub>10</sub> |
| Sample results for month of November 2014 (µg/m <sup>3</sup> )         | 06-Nov-14 | 20          | 11                    |
|  | 12-Nov-14 | 23          | 13                    |
|  | 18-Nov-14 | 29          | 13                    |
|  | 24-Nov-14 | 42          | 23                    |
|  | 30-Nov-14 | 21          | 12                    |
| No of Samples required by licence (24 Nov 2013 to 23 Nov 2014)         |           | 60          | 60                    |
| No of Samples collected & analysed (24 Nov 2013 to 23 Nov 2014)        |           | 60          | 60                    |
| Lowest Sample value (24 Nov 2013 to 23 Nov 2014) (µg/m <sup>3</sup> )  |           | 5           | 1                     |
| Mean of samples (24 Nov 2013 to 23 Nov 2014) (µg/m <sup>3</sup> )      |           | 21          | 9                     |
| Highest sample value (24 Nov 2013 to 23 Nov 2014) (µg/m <sup>3</sup> ) |           | 68          | 34                    |

**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                              |
|---|----------------------|--|---|---|
|   |                      | Neubeck's Creek<br>Upstream of Flow<br>Gauge | Neubeck's Creek<br>Downstream from<br>Offices | Cox's River<br>Downstream of<br>Blue Lake |
| Sample results* for Month of November 2014 (18/11/14)           | pH                   | 6.81   | 6.82  | 8.48                                      |
|   | Conductivity (µS/cm) | 2398   | 2275  | 1230                                      |
|   | Sulphate (mg/L)      | 1370   | 1310  | 71  |
|   | Iron (filterable)    | 0.21   | 1.26  | <0.05                                     |
|   | TSS (mg/L)           | <5   | <5  | <5  |
|   | Turbidity (NTU)      | 1.8  | 3.7   | 3.6                                       |
| No of Samples required by licence (24 Nov 2013 to 23 Nov 2014)  |                      | 4  | 4   | 4   |
| No of Samples collected & analysed (24 Nov 2013 to 23 Nov 2014) |                      | 4  | 4   | 4   |

**Notes:**

NA - no samples required for monitoring period.

Reporting year runs from 24 Nov 2013 to 23 Nov 2014

\* 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

## Pine Dale Mine EPA Compliance Data

|  |                      | <b>EPL Point 13</b>                                   |   |
|--|----------------------|---|---|
|  |                      | <b>Wallerawang<br/>Colliery No. 1A<br/>Mine Entry</b> | <b>EPL 100 percentile<br/>concentration limit</b> |
| Sample results for Month of<br>November 2014     | pH                   | NA  | <b>6.5 - 8.5</b>                                  |
|  | Conductivity (µS/cm) | NA  | NA  |
|  | Sulphate (mg/L)      | NA  | NA  |
|  | Iron (filterable)    | NA  | NA  |
|  | TSS (mg/L)           | NA  | <b>30</b>   |
|  | Turbidity (NTU)      | NA  | NA  |
|  | Oil & Grease (mg/L)  | NA  | <b>10</b>   |
| 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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16 December 2014

## Pine Dale Mine EPA Compliance Data



16 December 2014

### L4 Noise Limits

|                           | 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 November 2014 | NM1 (EPL Ref No. 33) | NA   | NA   | NA   | NA                                      | 42 (*46)                                |
|                           |                      | NA   | NA   | NA   | NA                                      |   |
|                           |                      | NA   | NA   | NA   | NA                                      |   |
|                           | NM2 (EPL Ref No. 14) | NA   | NA   | NA   | NA                                      | 42 (*46)                                |
|                           |                      | NA   | NA   | NA   | NA                                      |   |
|                           |                      | NA   | NA   | NA   | NA                                      |   |
|                           | NM3 (EPL Ref No. 10) | NA   | NA   | NA   | NA                                      | 42 (*46)                                |
|                           |                      | NA   | NA   | NA   | NA                                      |   |
|                           |                      | NA   | NA   | NA   | NA                                      |   |
|                           | NM4 (EPL Ref No. 5)  | NA   | NA   | NA   | NA                                      | 35                                      |
|                           |                      | NA   | NA   | NA   | NA                                      |   |
|                           |                      | NA   | NA   | NA   | NA                                      |   |
|                           | NM5 (EPL Ref No. 4)  | NA   | NA   | NA   | NA                                      | 35                                      |
|                           |                      | NA   | NA   | NA   | NA                                      |   |
|                           |                      | NA   | NA   | NA   | NA                                      |   |
|                           | NM6 (EPL Ref No. 2)  | NA   | NA   | NA   | NA                                      | 35                                      |
|                           |                      | NA   | NA   | NA   | NA                                      |   |
|                           |                      | NA   | 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

\* Noise Impact Assessment Criteria during construction and removal of the amenity bund

## Pine Dale Mine EPA Compliance Data

### 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 November 2014 |                            |                    |                   |                    |                   |                    |
|   |                            |                    |                   |                    |                   |                    |

**Notes:**

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



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16 December 2014

**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.