

AIR QUALITY RESULTS 2017

| | | | |
|------------------------|--|------------------------------|---|
| License Number: | 3391 | Monitoring Frequency: | Once a month |
| Licensee: | RIX'S CREEK PTY. LIMITED PO BOX 4 EAST MAITLAND NSW 2323 | Sampling Method: | AM-19 |
| Premises: | RIX'S CREEK COLLIERY RIX'S CREEK LANE SINGLETON NSW 2330 | Limits: | 4 g/m ² /month EPA Guideline |
| | | Pollutant: | Particulates - Deposited Matter |
| | | Units of measure: | g/m ² /month |

| | | | | | | |
|-------------------|------------------|------------------|---------------|---------------|-------------|--------------|
| Published: | 24 February 2017 | 22 March 2017 | 19 April 2017 | 11 May 2017 | 9 June 2017 | 20 July 2017 |
| Sampled: | 18 January 2017 | 17 February 2017 | 20 March 2017 | 20 April 2017 | 22 May 2017 | 20 June 2017 |
| Obtained: | 10 February 2017 | 10 March 2017 | 13 April 2017 | 10 May 2017 | 9 June 2017 | 14 July 2017 |

| Sampling Point | Monitoring Location | JANUARY Measurement | FEBRUARY Measurement | MARCH Measurement | APRIL Measurement | MAY Measurement | JUNE Measurement |
|----------------|---------------------|---------------------|----------------------|-------------------|-------------------|-----------------|------------------|
| 1 | D1 | 0.9 | 1.4 | 0.9 | 2.6c | 1.7 | 2.8c |
| 2 | D2 | 0.9 | 1.1 | 1.0 | 0.9 | 1.8 | 3.7c |
| 3 | D3 | 1.2 | 1.4 | 1.3 | 0.9 | 1.7 | 0.9 |
| 4 | D5 | 1.1 | 1.1 | 1.8 | 1.5 | 3.3 | 2.2 |
| 5 | D6 | 1.3 | 1.8 | 4.3 | 2.3 | 3.1 | 3.0 |
| 6 | D7 | 1.6 | 3.6c | 18.1 | 8.8c | 7.1c | 4.4 |
| 7 | D8 | 0.4 | 1.1 | 1.1 | 0.8 | 2.1 | 1.0 |
| 8 | D9 | 1.0 | 1.1 | 1.4 | 1.3 | 3.4 | 1.5 |
| 9 | D10 | 0.5 | 0.8 | 0.9 | 0.8 | 2.1 | 0.9c |
| 10 | D11 | 2.6c | 1.3 | 1.2 | 1.6 | 2.8 | 0.8 |
| 11 | D13 | 1.3 | 1.2 | 1.3 | 0.8 | 1.8 | 1.4 |
| 12 | D14 | 1.0 | 6.8c | 8.2 | 1.3 | 1.6 | 1.9 |
| 13 | D15 | 1.8 | 1.9 | 1.7 | 1.0 | 3.1 | 1.7 |
| 14 | D16 | 2.6 | 1.8 | 1.8 | 0.8 | 1.8 | 2.0 |
| 15 | D17 | 1.5 | 0.7 | 1.7 | 1.5 | 1.2 | 1.4 |
| 16 | D18 | 0.9 | 0.8 | 1.4 | 0.4 | 1.5 | 1.1 |
| 17 | D19 | 0.8 | 3.6c | 2.2 | 1.3 | 2.5 | 14c |
| 18 | D20 | 0.8 | 1.7 | 2.5 | 2.6 | 2.7 | 1.8 |
| 19 | D21 | 0.7 | 0.9 | 1.2 | 3.6c | 1.4 | 1.8c |
| 20 | D22 | 1.3 | 0.8 | 1.4 | 2.2 | 1.6 | 1.4 |
| 21 | D23 | 3.5c | 1.8 | 1.5 | 1.7 | 2.3 | 2.3 |
| 22 | D25 | 1.4 | 6.9c | 2.4 | 2.0 | 2.8 | 2.8 |
| 23 | D26 | 0.7 | 1.4 | 2.1 | 2.0 | 1.5 | 0.9 |
| 24 | D27 | 6.7c | 7.3c | 6.4 | 1.2 | 1.1 | 1.3 |
| 25 | D28 | 1.4 | 1.2 | 4.5 | 1.4 | 2.1 | 1.7 |
| 26 | D29 | 1.7 | 0.7 | 0.7 | 0.9 | 1.8 | 1.9 |
| 27 | D30 | 1.8 | 1.5 | 1.3 | 3.3 | 2.7 | 1.4 |
| 28 | D31 | 7.9c | 7.4c | 1.8 | 1.1 | 2.2 | 1.5 |
| 29 | D32 | 1.1 | 2.3 | 1.8 | 1.4 | 1.9 | 1.6 |
| 30 | D33 | 0.9 | 1.2 | 1.9 | 2.1 | 2.1 | 1.3 |

| | | | | | | |
|---------|-----|-----|------|-----|-----|-----|
| Mean | 1.2 | 1.3 | 2.7 | 1.4 | 2.1 | 1.7 |
| Minimum | 0.4 | 0.7 | 0.7 | 0.4 | 1.1 | 0.8 |
| Maximum | 2.6 | 2.3 | 18.1 | 3.3 | 3.4 | 4.4 |

*c - contaminated sample

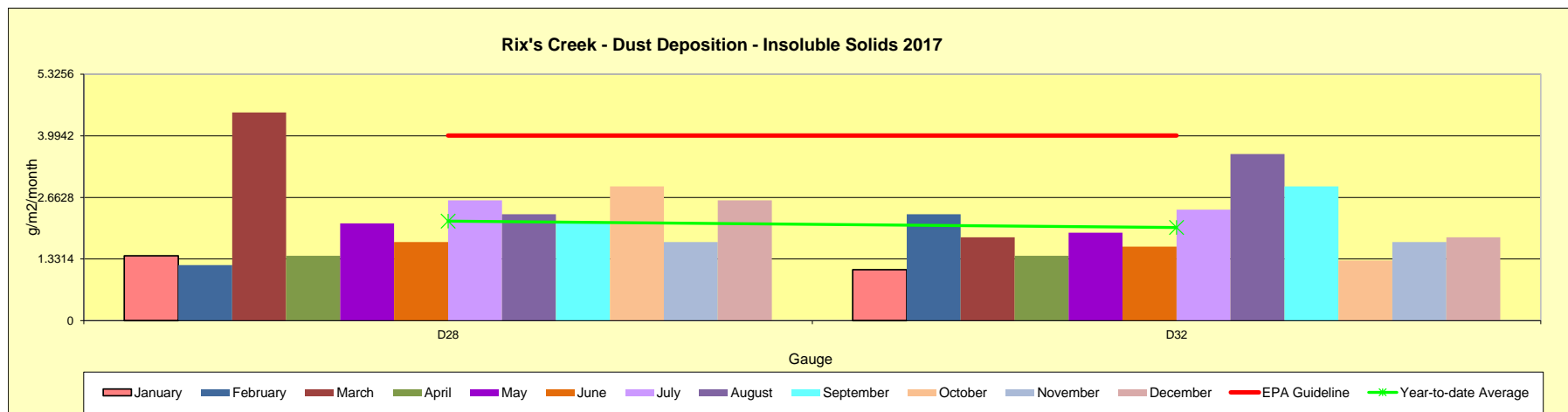
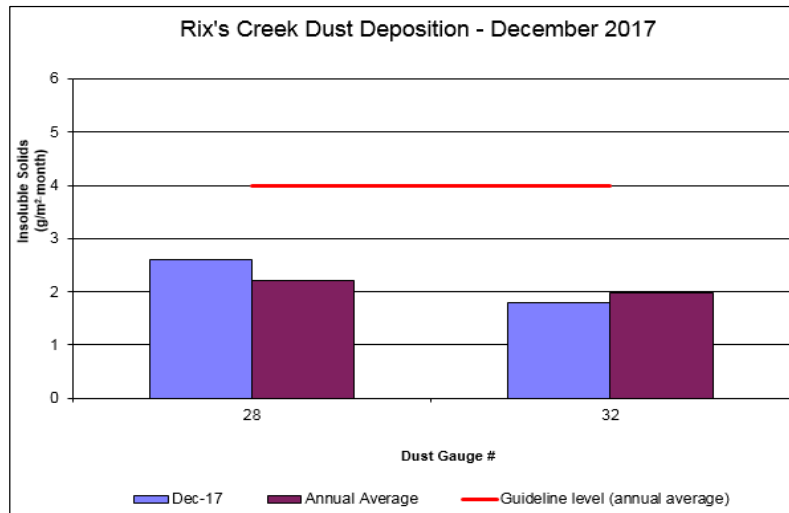
**d - damaged gauge (no result)

Deposition Dust Gauge use at Rix's Creek Mine has been reduced.

| Published: 24 August 2017 15 September 2017 12 October 2017 10 November 2017 13 December 2017 15 January 2018 Sampled: 18 July 2017 17 August 2017 18 September 2017 18 October 2017 15 November 2017 15 December 2017 Obtained: 11 August 2017 14 September 2017 12 October 2017 13 November 2017 13 December 2017 10 January 2018 | | | | | | | | | |
|---|---------------------|------------------|--------------------|-----------------------|---------------------|----------------------|----------------------|----------------------|---------------|
| Sampling Point | Monitoring Location | JULY Measurement | AUGUST Measurement | SEPTEMBER Measurement | OCTOBER Measurement | NOVEMBER Measurement | DECEMBER Measurement | Year-to-date Average | EPA Guideline |
| 25 | D28 | 2.6 | 2.3 | 2.1 | 2.9 | 1.7 | 2.6 | 2.2 | 4 |
| 29 | D32 | 2.4 | 3.6 | 2.9 | 1.3 | 1.7 | 1.8 | 2.0 | 4 |
| | | | | | | | | | |
| Mean | | 2.5 | 3.0 | 2.5 | 2.1 | 1.7 | 2.2 | | |
| Minimum | | 2.4 | 2.3 | 2.1 | 1.3 | 1.7 | 1.8 | | |
| Maximum | | 2.6 | 3.6 | 2.9 | 2.9 | 1.7 | 2.6 | | |

*c - contaminated sample

**d - damaged gauge (no result)





FLIGHT AND PHOTOGRAPHY BY
Fugro Spatial Solutions Pty. Ltd.
 Lot 1, 44 Broad Street, High Rise Plaza, Essendon, VIC
 Telephone: +61 3 9461 2400, Fax: +61 3 9461 2408



Rix's Creek Colliery



Coordinate System: MGA84 Zone 56
 Vertical Datum: AHD
 Date of Photography: 28 January 2018
 Date of Postprocessing: 30 December 2018
 Scale of Postprocessing: 1:25000
 ref:RSC47501_Rix's Creek_South01A_20K