

# Rocglen Coal Mine Community Consultative Committee Meeting #36

## Environmental Monitoring Report Jan 2021 – December 2021

### Noise Monitoring

Attended noise monitoring is no longer required for the site. There were no noise complaints or investigations

### Blast Monitoring

Blasting at the operations has ceased and blast monitors have been decommissioned.

### Air Quality

#### Deposited Dust Results

The deposited dust monitoring had annual average limits below the set criteria at all sites.

**Table 1: Deposited Dust Monitoring Data Summary Year 2021**

Site	EPL I.D. No.	Property Name	Annual Mean Total Insoluble Solids (g/m <sup>2</sup> /month)	Annual Mean Ash %	Long Term Insoluble Solids Average
BD3		Belah	1.6	1.0	1.8
BD4	4	Surrey	2.1	1.4	1.4
BD5		Stratford	2.0	1.4	1.4
BD6	6	Roseberry	1.5	0.8	1.2
BD7		Roseglass	1.3	0.8	1.6
BD8		Yarrowonga	1.2	0.6	2.2
BD2-A		Penryn	2.4	1.7	3.5

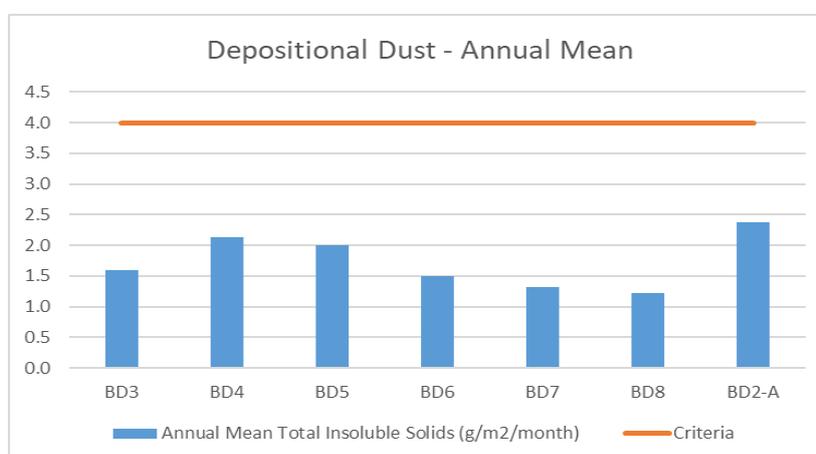


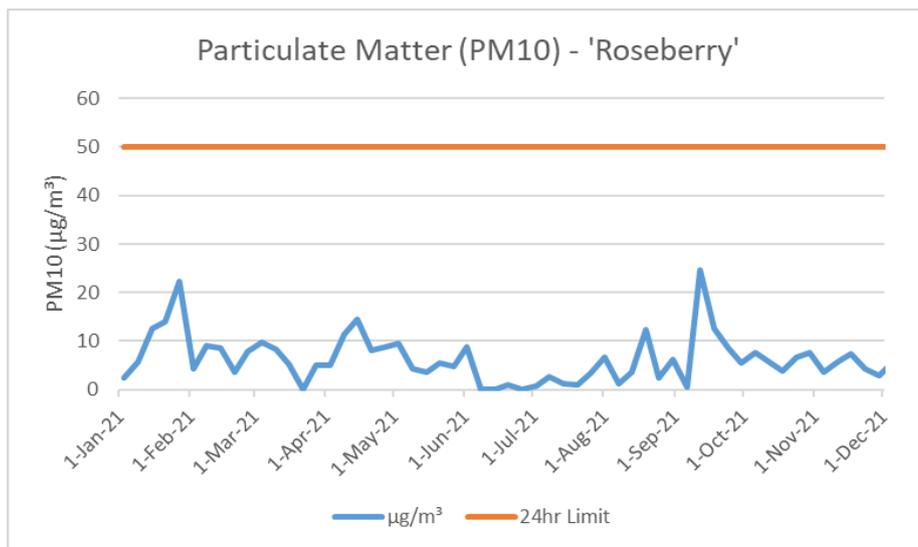
Figure 1: Depositional Dust Annual Mean

**PM<sub>10</sub> Results for 2021**

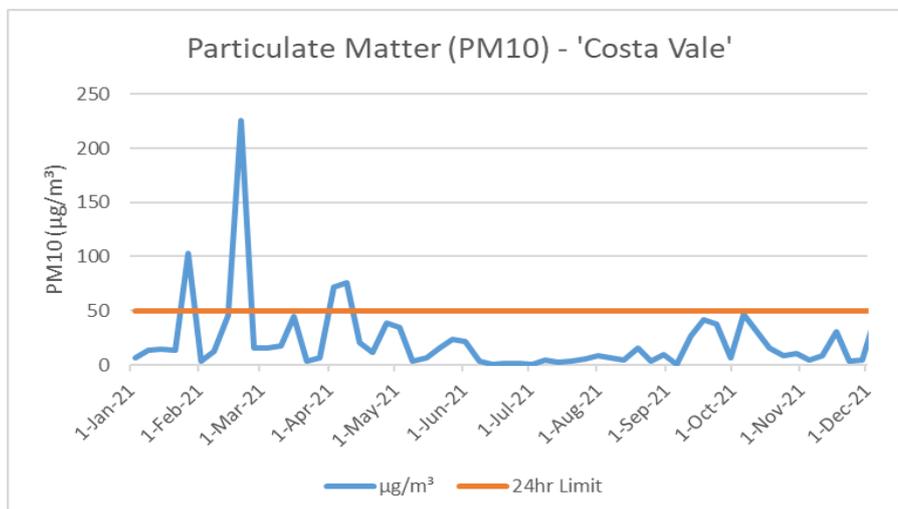
Summary results for high volume (PM10) air samplers at Costa Vale and Roseberry are given in the table below. The 'Roseberry' TEOM and HVA air sampler recorded no exceedances of the 24 hour criteria throughout the calendar year. Costa Vale PM10 HVA's exceeded the 24 hour criteria four times. This was due to dry conditions at the start of the year and large number of livestock (Sheep) kept in the paddock where the dust monitor is located.

**Table 2: Summary High Volume air sampler (HVAS) at Costa Vale and Roseberry for 2021**

Sites	Costa Vale- Full data set	Roseberry- Full data set
No. of readings	59	59
No. days above criteria	4	0
Maximum	226	24.7
Minimum	0.3	0.1
Average	21.17	6.31



**Figure 2 - 'Roseberry' Particulate Matter (PM10)**



**Figure 3 - 'Costa Vale' Particulate Matter (PM10)**

## **Water Monitoring**

### **Ground Water**

Monitoring piezometers to the south east of the void, MP7 and MP8 dropped around 1m during the reporting period and are starting to stabilise. Water levels in MP7 & MP8 are related to isolated perched aquifer adjoining the mine void. Bore WB-7 300m southeast of MP7 & MP8 has had over 2m rise in water level.

Groundwater levels to the north of the void continued to rise, with WB-5 rising by 6m, and WB3 increasing by 0.94m. Water level trends in all other bores have had a slight rise due to increased rainfall.

The mine void was backfilled in December 2020 above groundwater inflow level. There was no bore water extraction and groundwater take from void seepage during the reporting period.

### **Surface Water**

There are two Licenced Discharge Points (LDPs) nominated in the current EPL 12870, LDP11 to the south of the site, and LDP12 to the north of the site.

**Wet weather discharge** is where more than 38.4mm of rainfall occurs within 5 day period.

**Controlled release** is where water dams at discharge points are full and actively pumped off site after quality requirements have been met. Flocculation of the dams is undertaken where required remove sediment load.

#### **Wet Weather Discharges LDP12**

There were four (15<sup>th</sup> March, 25<sup>th</sup> March, 22<sup>nd</sup> November, 8<sup>th</sup> December) wet weather discharge from Dam B through licenced discharge point LDP12. Water qualities were within EPA standards.

#### **Wet Weather Discharges LDP11**

There were seven (10<sup>th</sup> March , 15<sup>th</sup> March, 10 June, 13<sup>th</sup> October, 8<sup>th</sup> November, 22<sup>nd</sup> November, 8<sup>th</sup> December) wet weather discharge from Dam SD3 through licenced discharge point LDP11. Water qualities were within EPA standards.

#### **Controlled Release LDP12**

There were two (3<sup>rd</sup> May, 17<sup>th</sup> September) controlled releases from Dam B through licenced discharge point LDP12. Water qualities were within EPA standards.

#### **Controlled Release LDP11**

There were four (13<sup>th</sup> April, 21<sup>st</sup> April, 25<sup>th</sup> October, 19<sup>th</sup> November) controlled releases from Dam SD3 through licenced discharge point LDP11. Water qualities were within EPA standards.

### **Complaints**

No community complaints have been received since last CCC meeting.

### **Rehabilitation**

Rehabilitation of the eastern void was completed. Seeded with woodland mix of grass and tree and shrub species. Seedlings were also planted. Landform was changed to a more natural geomorphic design with rock drop structures.

### **Other**

- Rocglen Mine Closure MOP (CMOP) approval has been extended till July 2022 when new legislation becomes active. Mine Operational Plans (MOP) are being replaced by Rehabilitation Management Plans under new legislation by the Resource Regulator.
- Site operations are now limited to bulk earth moving using dozers. Trucking and shoving operations have ceased. Some trucking of stone for drainage lines using smaller Moxy trucks will be undertaken as required but.

