

### Jondaryan Rail Loading Facility Air Quality Monitoring Results

New Acland Coal Pty Ltd (NAC) undertakes air quality monitoring as part of the environmental monitoring program for the Jondaryan Rail Loading Facility (JRLF). The following air quality data is provided to the Jondaryan community.

Table 1: Dust deposition and compositional monitoring results for May 2019

Site	Dust Deposition (mg/m <sup>2</sup> /day)	EA Criteria (mg/m <sup>2</sup> /day)	Compositional Analysis <sup>1</sup>			Comments
			Major (>20%)	Minor (5% - 20%)	Trace (<5%)	
JD1	17	120	Mineral Material (60%), Coal (30%)	Insects (10%)	Vegetation (<5%)	JRLF to north-east. Dirt & gravel immediately surrounding. Gravel driveways to west, north-west, north & north-east. Road to south-west, west & north-west. Gravel edge road to north-west, north & north-east. Highway & rail to north-west, north & north-east. Bare paddock to north-east, east & south-east. Gravel road to north-east, east, south-east & south.
JD2	17	120	Mineral Material (40%), Coal (40%)	Insects (10%), Vegetation (10%)	Nil	JRLF to north-east. Grass immediately surrounding. Highway & rail to north-west, north & north-east. Gravel edge road to north-east, east, south-east & south. Gravel road to south-east & south. Stubble paddock to south-east. Road to south-west & west.
JD3	23	120	Mineral Material (35%), Coal (30%)	Polysaccharide Slime (20%), Insects (10%), Vegetation (5%)	Nil	JRLF to north-east. Grass & garden immediately surrounding. Highway & rail to north-west, north & north-east. Gravel driveways to north, north-east, east, south-east & south. Road to north, north-east, east, south-east, south & south-west. Gravel edge road to south-east.
JD4	50	120	Mineral Material (35%), Polysaccharide Slime (30%)	Coal (20%), Vegetation (10%), Insects (5%)	Nil	JRLF to east. Grass immediately surrounding. Stubble paddock to south-west, west, north-west, north & north-east. Road to north-east, east, south-east, south & south-west. Highway & rail to south-east, south & south-west.
JD5	17	120	Mineral Material (45%), Vegetation (30%)	Coal (20%), Insects (5%)	Nil	JRLF to north-east. Grass immediately surrounding. Highway & rail to north-west, north & north east. Road to north-east, east, south-east & south.

<sup>1</sup> A semi-qualitative visual analysis of a representative portion of the collected sample which is as consistent as possible (however potentially biased) to that of the complete sample. When measured at a sensitive place, the allowable maximum level of the release of dust from JRLF is 120 milligrams per square metre per day (120 mg/m<sup>2</sup>/day) as stated in JRLF's Environmental Authority (EA). The dust deposition monitors do not distinguish between dust sources. The predominant wind directions for May 2019 were East (36.3%), South-East (16.0%) and South-West (14.8%). The predominant wind speeds were light air to gentle breeze<sup>2</sup>

<sup>2</sup> Wind speed classification uses the Beaufort scale

Table 2: Quarterly PM<sub>10</sub> monitoring result for 15-16 April 2019

Location	24 Hour PM <sub>10</sub> Result (µg/m <sup>3</sup> )	Long-Term PM <sub>10</sub> average (µg/m <sup>3</sup> )	NEPM Criteria for 24 Hour PM <sub>10</sub> exposure (µg/m <sup>3</sup> ) <sup>3</sup>	Comments <sup>4</sup>
Corner of Lagoon and Earl Streets, Jondaryan	21	22	50	"Winds from east-north-east to south-east placed the site downwind of the Jondaryan stockpile (~1.0km) for 36% of the sampling period"

<sup>3</sup> Taken from monitoring report, with respect to most recent result

<sup>4</sup> PM<sub>10</sub> monitoring is undertaken on a quarterly basis

The national 24-hour exposure for PM<sub>10</sub> particulates stated in the National Environment Protection Measure for Ambient Air Quality is 50 micrograms per cubic meter (50 µg/m<sup>3</sup>). The PM<sub>10</sub> monitors do not distinguish between *particulate matter sources*.

### TSP 24 Hour Average

May 2019

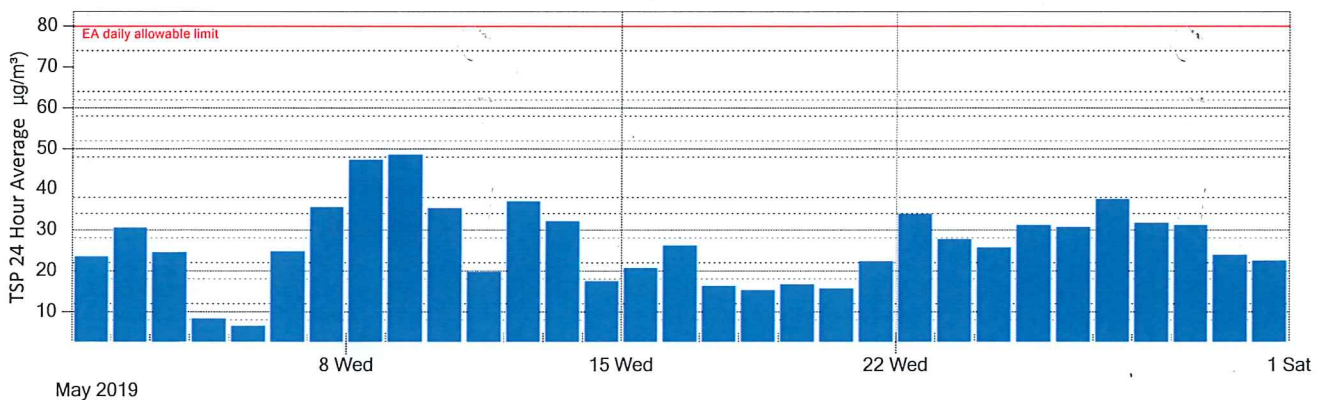



Figure 1: Jondaryan Township TSP continuous monitoring 24 Hr average results for May 2019

**Comments:** Ecotech Pty Ltd has been contracted by NAC for the maintenance and data collection at a TEOM site located in the Jondaryan Township which continuously measures Total Suspended Particulate (TSP) matter. When measured at a sensitive place, the maximum level of the release of TSP from the JRLF (24 hour rolling average) is 80 micrograms per cubic metre (80 µg/m<sup>3</sup>) as stated in the JRLF's EA. Any exceedances of this limit are displayed in Figure 1 above. The TEOM does not distinguish between particulate matter sources. The predominant wind directions for May 2019 were East (26.3%), South-East (16.0%) and South-West (14.8%). The predominant wind speeds were light air to gentle breeze<sup>2</sup>. The TEOM unit availability for TSP determination was 99.8% of the sample period.

If there are any queries regarding the air quality monitoring undertaken for the Jondaryan Rail Loading Facility please contact Andrew Scouller at the New Acland Coal Mine during business hours on 4694 8888.

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Date: 24/06/19.