

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 the period: July 2013

Site	Dust Deposition (mg/m <sup>2</sup> /day)	DA Criteria (mg/m <sup>2</sup> /day)	Compositional Analysis			Comments
			Major	Minor	Trace	
JD1	10.0	120	Coal (45%), Mineral Material (40%)	Vegetation (10%), Insects (5%)	NA	Rail and Highway to the north. Stubble paddock to north east. JRLF to east. Grass and Crop paddocks to south east. Residential to north, and west. Road with unsealed edges immediately north.
JD2	23.3	120	Coal (40%)	Mineral Material (25%), Vegetation (25%), Polysaccharide Slime (5%), Copper Sludge (5%)	Insects (<1%)	Rail and Highway to north, roadwork occurring to north. JRLF to the east. Paddocks to the east. Residential to south and west. Road with unsealed edges immediately east.
JD3	30.0	120	Mineral Material (70%)	Vegetation (10%), Coal (20%), Insects (5%)	Insects (<1%)	Highway and rail to north. JRLF to the east. Residential surrounding. Road with unsealed edges immediately east and south. Paddocks to the west.
JD4	60.0	120	Mineral Material (60%)	Coal (15%), Insects (15%), Polysaccharide Slime (5%), Copper Sludge (5%)	Vegetation (<1%)	Crop paddock surrounding. Roadwork occurring immediately south. Residential to west. Rail, Highway and Jondaryan town to south. JRLF to the east.
JD5	13.3	120	Mineral Material (40%), Coal (35%)	Vegetation (10%), Copper Sludge (10%), Insects (5%)	NA	Rail and highway immediately north. JRLF to the east. Grass paddocks and residential to east, south and west.

<sup>1</sup>Copper sludge is a by product of the necessary preservative (copper sulphate) in sample containers as directed by the laboratory. Polysaccharide slime is a by product of the bio-degradation of insects and vegetation. When measured at a sensitive place, the allowable maximum level of the release of dust from the JRLF is 120 milligrams per square metre per day (120mg/m<sup>2</sup>/day) as stated in the JRLF's Development Approval (DA). The dust deposition monitors do not distinguish between dust sources. The predominant wind directions for July were from the east (~27%), south east (~17%), and south (~15%). The predominant wind speed for July was light winds.

Table 2: Quarterly PM<sub>10</sub> monitoring result for the period 18-19 July 2013

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> )	NEM Criteria for 24 Hour PM <sub>10</sub> exposure (µg/m <sup>3</sup> )	Comments <sup>1</sup>
Corner of Lagoon and East Streets, Jondaryan	8	24	50	Site... is located ~1 km west-north-west from the JRLF. Site was not downwind of the JRLF for the sampling period. Winds were light.

<sup>1</sup>PM<sub>10</sub> monitoring is undertaken on a quarterly basis for a nominal 24 hour period.

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

July 2013 TEOM Results

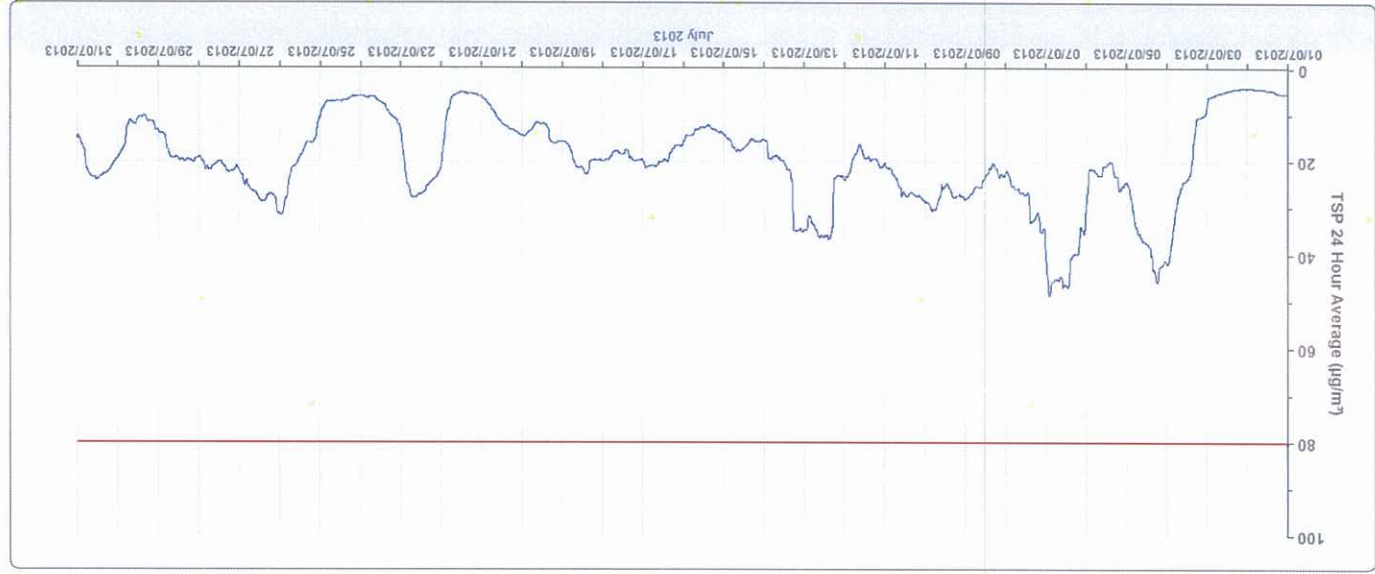


Figure 1: Jondaryan Township TSP continuous monitoring results for the period: July 2013

**Comments:** The predominant wind directions for the month of July were from the east (~27%), south east (~17%), and south (~15%). The predominant wind speed for July was light winds. The TEOM unit was operational for >99% of the sample period. A TEOM located within the Jondaryan Township 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 average) is 80 micrograms per cubic metre (80µg/m<sup>3</sup>) as stated in the JRLF's DA. The TEOM's do not distinguish between particulate matter sources. If there are any queries regarding the air quality monitoring undertaken for the Jondaryan Rail Loading Facility please contact Rob Rashleigh at the New Acland Coal Mine during business hours on 4694 8888.

Issued by:

Rob Rashleigh  
CHPP Superintendent  
New Acland Coal Pty Ltd

Date: 22/8/2013  
*[Signature]*