



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 the period: December 2012

Site	Dust Deposition (mg/m ² /day)	DA Criteria (mg/m ² /day) ^a	Compositional Analysis			Comments
			Major	Minor	Trace	
JD1	63.3	120	Mineral Material (30%), Copper sludge ^a (20%),	Insects (15%), Vegetation (15%), Coal (10%), Polysaccharide Slime* (10%)	NA	Paddocks to the east and west. Road immediately north. Highway and rail line to the north.
JD2	43.3	120	Mineral Material (40%), Vegetation (20%)	Polysaccharide Slime* (15%), Insects (10%), Coal (10%), Copper sludge ^a (5%)	NA	Grass surrounding gauge. Highway and rail line immediately north. Paddocks to the east, south, south-east.
JD3	203.0	120	Mineral Material (35%), Vegetation (20%)	Insects (15%), Polysaccharide Slime* (15%), Coal (10%), Copper sludge ^a (5%)	NA	Resident to the east. Road immediately east. Highway and rail line to the north. Paddocks to the south and west.
JD4	60.0	120	Mineral Material (40%), Insects (20%)	Vegetation (15%), Polysaccharide Slime* (15%), Coal (10%)	NA	Grass surrounding the gauge. Paddock to the west and east and cropped paddock immediately west. Highway and rail line to the south. Road immediately south. Dirt in funnel.
JD5	60.0	120	Mineral Material (30%), Vegetation (20%), Insects (20%)	Polysaccharide Slime* (15%), Coal (10%), Copper sludge ^a (5%)	NA	Grass surrounding the gauge. Highway and rail immediately north. Paddocks to the west. Road to the east.

^a 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/m²/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 the month of December were from the east (~44%), north east (~19%), and south east (~9%). The predominant wind speed for December was light winds.

Table 2: Quarterly PM₁₀ monitoring result for the period 27-28 September 2012

Location	24 Hour PM ₁₀ Result (µg/m ³)	Long-Term PM ₁₀ Average (µg/m ³)	NEPM Criteria for 24 Hour PM ₁₀ exposure ^b (µg/m ³)	Comments
Corner of Lagoon and Earl Streets, Jondaryan	25	22	50	"Site...was within the downwind area of the Jondaryan coal stockpile for the sampling period". "While setting up...several large trucks were noticed producing significant dust on a nearby gravel road".

^aTaken from monitoring report, with respect to most recent result

^bPM₁₀ monitoring is undertaken on a quarterly basis for a nominal 24 hour period.

The national 24-hour exposure standard for PM₁₀ particulates stated in the National Environment Protection Measure for Ambient Air Quality is 50 micrograms per cubic metre (50µg/m³). The PM₁₀ monitors do not distinguish between particulate matter sources. The predominant wind direction for the PM₁₀ monitoring (24 hours) was east-north-easterly.

December 2012 TEOM Results

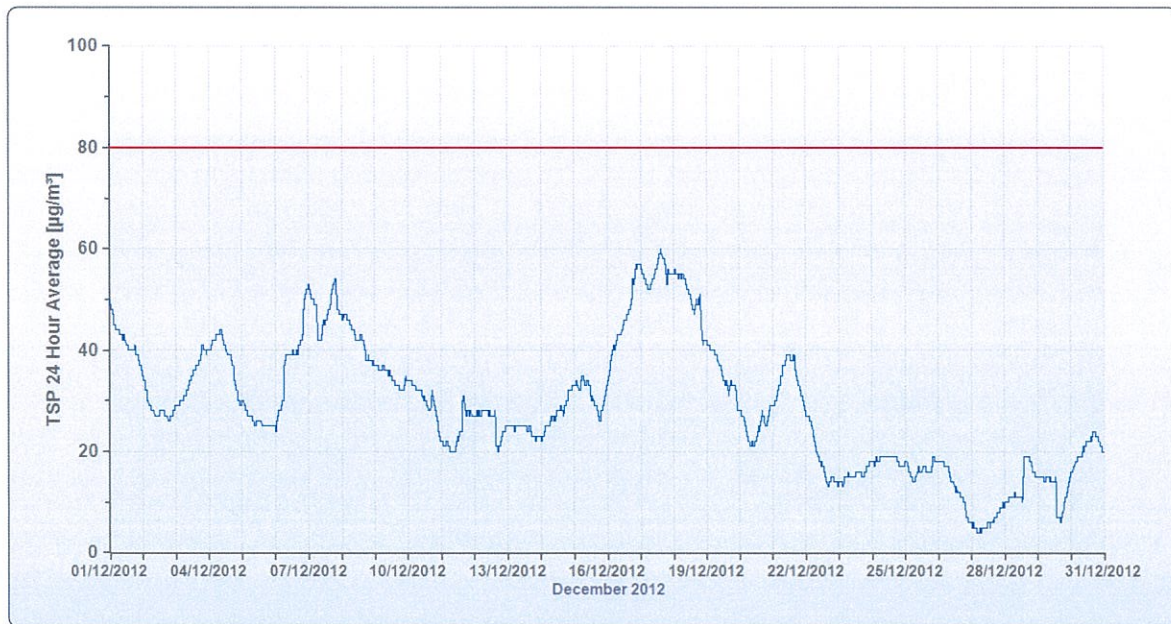


Figure 1: Jondaryan Township TSP continuous monitoring results for the period: December 2012

Comments: The predominant wind directions for December were from the east (~44%), north east (~19%), and north west (~9%). The predominant wind speed for December 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/m³) 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:

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 New Acland Coal Pty Ltd

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