



Site	Dust Deposition (mg/m ² /day)	DA Criteria (mg/m ² /day)*	Compositional Analysis			Comments
			Major	Minor	Trace	
JD1	33.3	120	Mineral Material (50%)	Coal (15%), Insects (15%), Vegetation (15%), Polysaccharide Slime* (5%)	NA	Grass immediately surrounding gauge. Bare paddock and stubble paddock immediately east and to the east. Dirt shouldered road immediately north and north-west. Highway and rail line to the north.
JD2	70.0	120	Mineral Material (55%)	Insects (15%), Coal (10%), Vegetation (10%), Polysaccharide Slime* (10%)	NA	Mown grass immediately surrounding gauge, highway and rail line to the north/north west. Bare paddock with stubble to the south-west and west. Dirt shouldered road immediately east.
JD3	103.0	120	Mineral Material (50%)	Insects (20%), Vegetation (20%), Coal (10%)	NA	Grass immediately surrounding gauge. Dirt shouldered road immediately east. Highway and rail line to the north. Spider web in funnel stem.
JD4	127.0	120	Mineral Material (45%), Vegetation (20%), Insects (20%)	Polysaccharide Slime* (10%), Coal (5%)	NA	Grass immediately surrounding the gauge. Paddock with new crop (mostly bare earth) immediately north, north-east, east. Dirt shouldered road to the south. Highway and rail line to the south and south-east.
JD5	33.3	120	Mineral Material (60%), Vegetation (20%)	Coal (10%), Insects (10%)	NA	Grass immediately surrounding the gauge. Highway and rail to the north. Cropped paddocks to the north-east. Vegetation in funnel stem.

^a Copper sludge is a by product of the necessary preservative (copper sulphate) in sample containers as directed by the laboratory
^b Polysaccharide slime is a by product of the bio-degradation of insects and vegetation

^c 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 November were from the east (~33%), north east (~27%), and north west (~1%). The predominant wind speed for November 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 ^a (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".

^a Taken from monitoring report, with respect to most recent result

^b PM₁₀ 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.

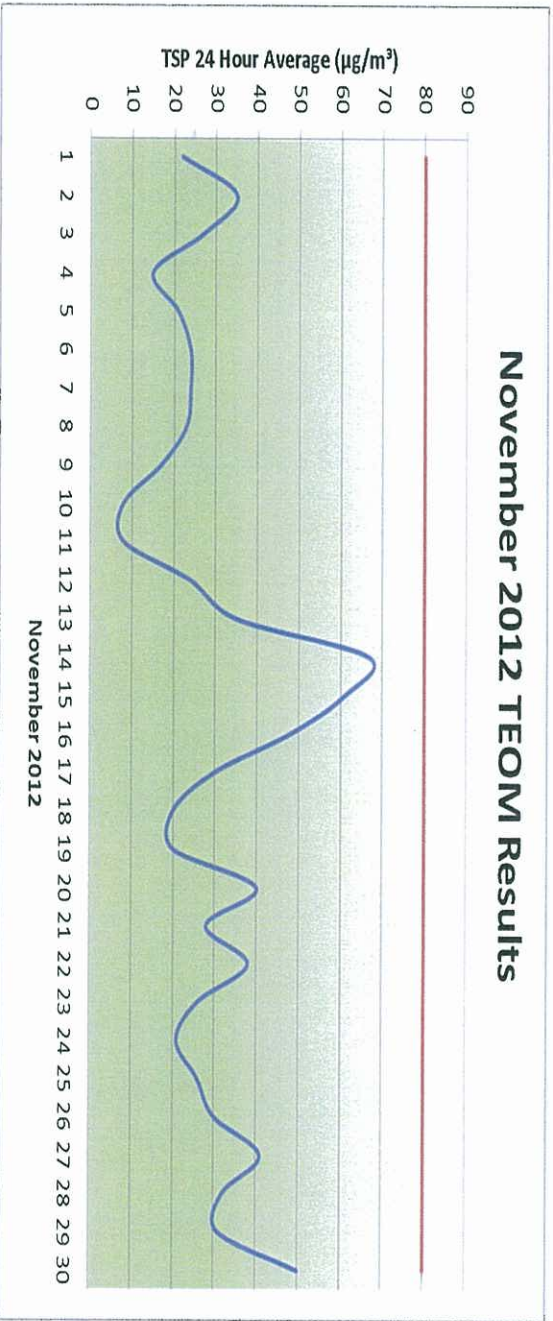


Figure 1: Jondaryan Township TSP continuous monitoring results for the period: November 2012

Comments: The predominant wind directions for November were from the the east (~33%), north east (~27%), and north west (~11%). The predominant wind speed for November 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:

Rob Rashleigh
 CHPP Superintendent
 New Acland Coal Pty Ltd

Date: 18/12/2012