

Study of Testing Methods Ambient Air

Sunday, 1 July 2012

Tested by TEOM Monitors and Bottles with Funnels.

Recommended Ambient Air reading in Australia is not supposed to exceed 120mg/m².

The recommended Ambient Air reading in Jondaryan is not supposed to exceed **80mg/m²**.

There is no Government legislation recommended for dust percentage inside homes.
30% and 35% coal dust inside homes is unacceptable by any standards because it should be Zero.
Acceptable standards for coal indoors is Zero.
Acceptable standards for coal PM¹⁰ is Zero.

All ambient Air results I have are from Tests conducted by New Hope Coal.

NOTE:

Garage Ambient Air bottle not in open.
Hammond bottle across from houses and trees which block some coal dust.
All other bottles out in the open.

Testing of Ambient Coal in Private Properties

Testing done by an environmental officer.

Two tests were taken from a bookcase shelf under covered way (enclosed with palings) that I had just painted the day before, one from a shelf, and one from the top which was covered in coal dust. Coal was obviously everywhere else in the area.

We then moved to the garage. The Private testing company representative asked me where I would like tested. I pointed to a door I had painted a week before and was now covered in coal. She shrugged and did a thing with her head and walked to her car, removed a ladder and took a sample from a 3" steel beam at the start of the carport. I mentioned that 'because of winds that beam would have very little dust'.

After that I decided that this was a total waste of time so lost interest. I felt they were treating me with contempt.

When we received the results the private company stated that she had bought the incorrect testing paper and it didn't show up the fine coal.

**The following results were while operating at 4.8 while waiting to receive permit for 4.8.
Therefore were operating for years under 2.8 permit.
(see Minutes of JDRA Meeting.)**

All percentages are a percentage of 80 – allowable by permit.

Table 1: 2008 Jondaryan Township Dust Deposition Monitoring Results												
2008	Jan	Feb	Mar	April	May	June	Jul	Aug	Sep	Oct	Nov	Dec
	Dust Deposition - mg/m ² /day											
JD2							197*	72	34	130*	VOID	41
PM ¹⁰												
Comments from NAC: (I do not understand this comment as July and Oct are over 120.												

July - Lower results (120) from a sampling site located closer to the facility indicates JD2 was influenced by activities other than the sliding; Ploughed paddock immediately west.
 My Comment – Maybe wind direction.
 October - Lower results (120) from sampling site located closer to the facility indicates JD2 was influenced by activities other than the sliding; Insect material visible in sample bottle.
 My Comment – Maybe wind direction.

November - No analysis undertaken as sample Bottle had been knocked over.

Table 2: 2009 Jondaryan Township Dust deposition Monitoring results

2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Dust Deposition - mg/m ² /day											
JD2	29	76	23	33	≤ ≥	40	39	56	72	81 *	51	31

Comment:

May – JD2 May sampling month included in April and June 2009 sampling period due to collection period.

Table 3-1: 2010 Jondaryan Township Dust Deposition Monitoring Results

2010	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Dust Deposition - mg/m ² /day											
JD1	Beaumont									Void	None	Com
JD2	39	Com	15	Com	79	None	22	Com	Com	177*	None	Com
JD3	Hammond – no bottle yet											
JD4	Across railway line							Com	Com	86*	None	Com

Table 3-2: April 2010 Jondaryan Township Stereomicroscopy Analysis Results.

April - Dust – 53 Coal **50%**

NOTE: one coal reading of 50% got them the permit for the Jondaryan facility.

Table 3-3: August/September 2010 Jondaryan Township Stereomicroscopy Analysis results

JD2 – (Landers) Dust - 60 Coal 2%

JD4 – (Across Railway Line) Dust - 60 Coal 20%

NOTE: Both properties same but coal difference at Landers.

Note it wasn't read in August - permit signed on 13th August.

Also No coal separation on all but one bottle April. These readings got them their permit for permanency.

Comments:

February – results include March results due to overlapping sampling period.

April – Stereo-microscopy Analyses undertaken see applicable table 3-2

August – August results included in September results due to overlapping sampling period.

September - Stereo-microscopy Analyses undertaken see applicable table 3-2

October – JD1 Sample bottle on ground following collection;

JD2 lower results (120) from sampling site located closer to the facility indicates JD2 was influenced by other than the sliding.

December – **December** results included in **January** due to overlapping sampling period. **NOTE**

MONTHS

My Comment – Maybe wind direction.

Keep in mind that:- In August they received their permit to remain In Jondaryan based on the above results. Tables 1, 2, 3.1, 3.2, 3.3 results.

NOTE: Even while waiting for permanent status they couldn't keep up to their permit and DERM still signed off on it.

Continuing Notes in original format.

Date	Site	Property of	Dust Deposition Mg/m ² /day	Coal
Date	Mine Comment			
January 2011	Sampling error due to flooding			
January 2011	Sampling error due to flooding			
January 2011	Sampling error due to flooding			
January 2011	Sampling error due to flooding			
Not sure of error guess because they were full of water and couldn't be tested as I was told by New Acland Employees.				
February 2011	JD 1	Beaumont	12	Not tested for coal.
February 2011	JD 2	Landers	23	
February 2011	JD 3	Hammond	213** (see note)	
February 2011	JD 4	Across the Railway Line	93*	
NOTE: Hammond results were for February, March, and April as bottle was not changed. I informed Company during this time and was ignored. Only changed after visit from three Mine Employees in April. Bottle full of water. Have photos to prove this.				
March 2011	JD 1	Beaumont	None	
March 2011	JD 2	Landers	69	20%
March 2011	JD 3	Hammond	None	
March 2011	JD 4	Across Railway Line	133**	20%
April 2011	JD 1	Beaumont	162**	40%
April 2011	JD 2	Landers	21	60%
April 2011	JD 3	Hammond	92*	1%
April 2011	JD 4	Across Railway Line	52	20%
May 2011	JD 1	Beaumont	191**	1%
May 2011	JD 2	Landers	23	10%
May 2011	JD 3	Hammond	39	1%
May 2011	JD 4	Across Railway Line	204**	30%

Date	Site	Property of	Dust Deposition Mg/m ² /day	Coal	
June 2011	JD 1	Beaumont	5.7	1%	
June 2011	JD 2	Landers	11.4	1%	
June 2011	JD 3	Hammond	11.4	1%	
June 2011	JD 4	Across Railway Line	431****	5%	
July 2011	JD 1	Beaumont	6.5	10%	
July 2011	JD 2	Landers	18.2	50%	
July 2011	JD 3	Hammond	12.3	10%	
July 2011	JD 4	Across Railway Line	44.2	25%	

NOTE: No results for August

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September 2011	JD 1	Beaumont	22.5	1%	
September 2011	JD 2	Landers	33.6	1%	
September 2011	JD 3	Hammond	36.1	1%	
September 2011	JD 4	Across Railway Line	356****	1%	
September 2011	JD 5	Garage	92.9*	1%	
October 2011	JD 1	Beaumont	43.5	1%	
October 2011	JD 2	Landers	1,170*****	1%	
October 2011	JD 3	Hammond	167**	1%	
October 2011	JD 4	Across Railway Line	705*****	1%	
October 2011	JD 5	Garage	562*****	1%	
November 2011	JD 1	Beaumont	45.3	1%	
November 2011	JD 2	Landers	43	1%	
November 2011	JD 3	Hammond	39.1	1%	
November 2011	JD 4	Across Railway Line	160**	1%	
November 2011	JD 5	Garage	58.7	1%	
These above are the results given to me from Bruce Arthur.					
NOTE: Take a good look at July. Notice August is Missing					
I shall now add the ones I have which have not been included.					
December 2011	JD 1	Beaumont	Void	Void	
December 2011	JD 2	Landers	24.2	1%	
December 2011	JD 3	Hammond	41.3	1%	
December 2011	JD 4	Across Railway Line	175**	1%	
December 2011	JD 5	Garage	175**	1%	
January 2012	JD 1	Beaumont	19	1%	!!!!!!!!!!!!!!!!!!!! Go to notes
January 2012	JD 2	Landers	27	1%	
January 2012	JD 3	Hammond	62	1%	
January 2012	JD 4	Across Railway Line	106*	1%	
January 2012	JD 5	Garage	151**	1%	
April 2012	JD 1	Beaumont	43.3	15%	
April 2012	JD 2	Landers	33.3	20%	

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April 2012	JD 3	Hammond	347***	5%	
April 2012	JD 4	Across Railway Line	160**	1%	
April 2012	JD 5	Garage	150**	1%	
May 2012	JD 1	Beaumont	16.7	40%	Note: Results
May 2012	JD 2	Landers	40	30%	
May 2012	JD 3	Hammond	26.7	30%	
May 2012	JD 4	Across Railway Line	1610.*****	10%	
May 2012	JD 5	Garage	90.*	25%	
June 2012	JD 1	Beaumont	6.7	30%	Note: Results + No rain water noted even though days of heavy rain.
June 2012	JD 2	Landers	33.3	25%	
June 2012	JD 3	Hammond	23.3	30%	
June 2012	JD 4	Across Railway Line	153.0**	15%	
June 2012	JD 5	Garage	90.0*	20%	
Sept 2012	JD 1	Beaumont	33.3	20%	
Sept 2012	JD 2	Landers	16.7	20%	
Sept 2012	JD 3	Hammond	240	10%	
Sept 2012	JD 4	Across Railway Line	43.3	20%	
Sept 2012	JD 5	Garage	20.0	10%	
October 2012	JD 1	Beaumont	33.3	10%	Note red readings. Odd.
October 2012	JD 2	Landers	26.7	10%	
October 2012	JD 3	Hammond	16.7	10%	
October 2012	JD 4	Across Railway Line	26.7	10%	
October 2012	JD 5	Garage	23.3	15%	
Nov 2012	JD 1	Beaumont	33.3	15%	Red readings don't seem possible to me. Not for these houses. No rain water added in description of conditions.
Nov 2012	JD 2	Landers	70.0	10%	
Nov 2012	JD 3	Hammond	103.0	10%	
Nov 2012	JD 4	Across Railway Line	127.0	5%	
Nov 2012	JD 5	Garage	33.3	10%	
Dec 2012	JD 1	Beaumont	63.3	10%	Red reading doesn't seem possible for my house for 1 month. Five readings of 10 seems odd. No rain water added.
Dec 2012	JD 2	Landers	43.3	10%	
Dec 2012	JD 3	Hammond	203.0	10%	
Dec 2012	JD 4	Across Railway Line	60.0	10%	
Dec 2012	JD 5	Garage	60.0	10%	
NOTE: Months of high readings are when we receive less coal dust in our homes.					