

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.

Study of Testing Methods

Glennis Hammond

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

Study of Testing Methods

Glennis Hammond

| | | | | | |
|--|------|---------------------|------------|------|-------------------------------------|
| 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% | |

Study of Testing Methods

Glennis Hammond

| | | | | | |
|---|------|---------------------|------------|-----|---|
| 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. | | | | | |