

# Linwood Marino Community Working Group Meeting

Wednesday 15 November 2006

Seacliff Surf Life Saving Club

**Attendance:** Beryl Hall (Marino Residents' Association)  
David Parsons (Marino Residents' Association)  
Glenys Brokenshire (Marino Residents' Association)  
Imogen Edmunds (EPA)  
Olando Puccini (PIRSA)  
Adam Betterman (Boral)  
Alistair Kelsh (Boral)  
Paul Whiffen (Boral)  
Katherine Teh-White (Futureye)  
Carolyn Baxter (Futureye)

**Apologies:** Fran Southern (Marino Residents' Association)

## 1. Welcome, introduction and overview

Notes of the previous meeting in June had been previously circulated. The notes that follow provide a summary of key points discussed at the meeting. Adam introduced new attendees including Futureye consultants engaged by Boral.

## 2. Discussion

Adam explained that Boral thought that the site issues at Linwood Quarry had changed over time as well as what the company wanted to achieve. It was acknowledged that QED had provided valuable input to the community consultation process over the past few years but Boral considered that it was now time to seek another company to take it forward into the future. It was acknowledged that Boral has moved from its previously reactive response to community concerns to a more integrated approach to stakeholder engagement. After further consideration Boral decided to appoint Futureye to assist taking the company forward.

Katherine Teh-White provided a brief insight into Futureye's experience and capabilities. Futureye has provided valuable assistance to the Boral Construction Materials group interstate and is working with One-Steel at Whyalla. Katherine said that Futureye understands what is required to strike a good social balance and level of understanding that meets the needs of the community, Government and the company through a consultation process. With much experience in the area of stakeholder engagement, Futureye proposes to undertake a study of current and future risks using a self-diagnosis/gap analysis tool which will involve an interview survey process. Starting soon, Boral will involve all key stakeholders

in the survey to obtain feedback on its progress, or lack of it, when addressing issues of concern with a view to achieving a better outcome for all.

### 3. Review of issues and actions

#### 3.1 Dust

##### **Static Dust Monitors**

A series of tables illustrating static dust monitoring results were shown including an aerial photograph of the site indicating the location of the 5 monitors.

Adam explained that monitors 1 & 2 provided the most significant readings, generally around 1-2g/m<sup>2</sup>, a good result. David Parsons suggested that at the next meeting Boral provide an overlay of previous years' results. Adam advised that Monitor 2 had been relocated closer to the crushing plant due to interference/vandalism. However, the monitoring results were spiked due to its proximity to the crushing plant. Monitor 2 has since been relocated to better reflect meaningful data. Results from Monitors 3,4 & 5 have generally shown downward trends.

Beryl Hall said that during a recent door to door survey along the top end of Jervois Terrace, North Street and Dudley Crescent residents had complained about dust being particularly bad some 3-4 weeks ago (mid October). Adam responded by saying that the most recent dust monitoring results compared well to the period January-May 2005 when quarrying activity was busier and re-handling of products higher than normal. Since that time a number of significant process improvements had been made including the improved dust control measures at the pug mill loading facility.

Glenys Brokenshire said that over the last 3-4 weeks dust had been really bad and asked if could have been due to local wind conditions. Adam provided a chart showing recent meteorological data (October 2006).

##### **Dustrack Monitors**

Adam discussed measurement standards and criteria explaining that the Victorian model measures PM<sub>10</sub> particles over a 24 hour average at a recommended maximum of 0.06mg/m<sup>3</sup>. Adam indicated that Boral were looking to use this as an 'intervention level' trigger for further action. Results from measurements taken on a hill within the quarry between August-November 2006 indicated only one exceedens above 0.06mg/m<sup>3</sup>. Adam showed comparisons of daily meteorological data which identified that peak dust occurrences related to increased south-easterly winds. It was suggested that due to the time delay between when monitoring results are recorded and when they are downloaded, some form of 'early warning' was required to provide an alert when dust levels increased.

Adam showed an overlay analysis of 2004/05 & '06 Dustrack results. The results clearly demonstrated that the 2005 results were worse, coinciding with increased levels of quarrying activity that year.

The meeting was advised that Boral has engaged an external consultant to provide recommendations and comparisons of different dust monitoring/measuring

equipment including Dustrack, TEOM, Osiris and \*BAM (\*BAM - Beta Attenuation Mass monitor is approved by the US/EPA and can provide real-time 'instant' reporting that incorporates meteorological data input and preset limit levels). Early indications are that the BAM system may be the most suitable as it provides real-time 'instant' reporting of results, has a meteorological data input facility and limit levels can be pre-set. The system is currently under review by Standards Australia. Boral is looking forward to receiving the consultant's recommendations to enable it to provide a new and improved data recording system.

Beryl Hall asked if there was any difference in the dust standards applicable in South Australia vs Victoria and if the SA standard was based upon the Californian (USA) EPA standard? The SA EPA advised that they refer to the NEPM (National Environment Pollution Measure) limit of 0.05mg/m<sup>3</sup>. Boral targets the 0.05mg/m<sup>3</sup> limit. Adam Betterman indicated that Boral is looking for monitoring locations in the surrounding community rather than 'inside' the quarry boundary.

#### **COOEE "DustBloc" Trial**

Boral commenced the trial use of 'DustBloc' at Linwood Quarry on 16<sup>th</sup> November 2006. 'DustBloc' is a bitumen in-water emulsion that reportedly encapsulates dust particles. The emulsion contains an additive that allows bitumen to mix with water.

Initial trials will use 'DustBloc' at an application rate of 1 litre to 20 litres of water, in high traffic areas e.g. the road from the weighbridge to the sales stockpile area. At a later stage the application rate will be trialled at rate of 1 to 40. The product will be trialled on a daily basis and applied to roadways using the existing quarry water cart.

Glenys Brokenshire and Beryl Hall undertook to advise the Marino Residents Association of the trial use of the dust suppression product.

'DustBloc' has been reportedly approved for use by the Queensland EPA and is used at a number of large mining sites and is considered to be an environmentally safe product.

*Action: By next meeting Adam to obtain MSDS sheet for 'DustBloc'.*

Adam also advised the meeting that Boral has purchased a Piann Dust Suppression micro-spray system which is to be installed at the company's Murray Bridge Quarry. This pressurized system operates at 1000psi and atomizes water into very fine 10 micron water droplets, creating a misty fogging effect. The system is designed to minimise dust generation in and around the crushing plant and if it proves to be effective similar units will be installed at other sites.

Dr David Parsons advised caution if using bore/recycled water where workers are exposed to the sprays as there is a possibility of potential respiratory health problems depending upon what's in the water particles.

*Action: Adam to determine proximity of workers to the spray system.*

## **3.2 Noise**

Adam gave an overview of recent blasting trials at Linwood Quarry before showing a short video of quarry blasting (courtesy Orica Limited). At Linwood the blasting trials involved the use of the Orica 'I-Kon' detonation system. This system has the capability to deliver better blast control with reduced impacts upon the local community. The 'I-Kon' detonation system reduces ground vibration levels by increasing the frequency wave (the sinewave characteristic which describes the severity of the vibration measured in hertz Hz) caused by the passage of seismic waves originating from a blast.

The Linwood trials comprised two blasts using the same number of holes, one using normal explosives, the other using 'I-Kon'. Prior to the trial, Boral had asked a number of residents to provide feedback on their perception of the impact of each blast. The returned feedback result sheets indicated that the 'I-Kon' blast was better than one using normal explosives. Adam said that Boral is still learning to understand what people 'feel' when blasting occurs in different parts of the quarry.

A 7 minute video showing the 'I-Kon' detonation system in various locations indicated that the system could not only reduce blasting impacts upon the local community but had the capability to provide quarry operators with greater rock fragmentation with less variability. Boral will be conducting further trials to determine its use of the 'I-Kon' system.

## 4 Community Issues

### 4.1 Website Feedback

Adam said that Boral is looking to update the Community Information Booklet and put it into website format. Adam acknowledged Fran Southern's valuable assistance in developing a Linwood website which has been sent to Boral head office, Sydney for assessment and approval.

Adam demonstrated the draft website program and said that it has many good features including the ability to be updated easily and regularly.

It was suggested that website should have Primary and Secondary school links.

**Action:** Adam and Fran to discuss this further.

### 4.2 Stormwater – waste water Joint Venture with Marion Council

Adam showed a slide demonstrating where off-site stormwater is directed into the quarry property. The stormwater enters the quarry site from Clubhouse Road and includes run-off from the recently developed 'Oceana' residential development. This has generated a significant increase in the volume of stormwater entering the site.

The issue has been of concern to Boral for some time and in recent discussions with The City of Marion the Council has acknowledged the need to fix the problem.

As the solution is not simple and is likely to incur considerable cost Council has applied for Federal Government funding assistance. A possible solution may involve

the collection of stormwater in a large holding pond within company property which can then be pumped to the quarry pit for re-use in and around the quarry site. Marion Council could also access the collected water for irrigating the golf course.

#### 4.3 Newsletter – feedback on shorter format

Due to a breakdown in the Boral/QED relationship copies of the previous A5 newsletter had not been distributed.

**Action:** A new newsletter is to be prepared.

#### 4.4 Tree Planting

A proposal to provide a vegetative screen along the southern boundary at the western end of Perry Barr Road has been put to the landholders and early indications are that the planting of trees along the proposed alignment would not be opposed. Adam showed an aerial photograph indicating the location of the proposed tree planting.

#### 4.5 Interpretive Viewing Platform

Further to earlier discussion of a proposal to erect a Community Information Board, Boral is giving the matter further consideration before determining a suitable location and approaching the landowners for their consent.

#### 4.6 Staff Changes - update

Adam advised the group that the new Trainee Manager at Linwood Quarry will be Rodney Kazam. Rodney is a Mechanical Engineer and has a manufacturing industry background. He is due to commence duties early in the new year.

**Action:** *These items will be included in the next newsletter.*

### 4. Where to from here

The Working Group decided the next meeting would take place on 21<sup>st</sup> February 2007. The meeting venue is to be the Seacliff Surf Life saving Club.

If you have any comments on these notes or any other issues you wish to raise please notify Adam on 8298 8810 or 0401 896 810.