

Environmental Management Report – Pakenham Quarry

For Period 14th June 2008 – 14th July 2008



Compiled by A.Price

Abstract

As the content of this report demonstrates, Cemex Pakenham has implemented a systematic, whole of site approach to environmental management and compliance with conditions of the *Mt Shamrock Quarry Environmental Management Plan Version 1: 18 January 2008*. All employees and contractors on site are aware of the necessity to conduct operations with minimal disruption to the environment and the local community. Monitoring results reflect this commitment by complying with and surpassing the standards required. The site is on track in relation to scheduled works as per the Environmental Management Plan. All non-compliances and complaints have been documented and any appropriate remedies actioned.

This report provides graphical summaries of all results obtained during the relevant monitoring period. These graphical summaries indicate averages and data trends. Any results obtained that fall outside the required standards are reported in the *Non- Compliances* section.

Activity Synopsis

- Surface extraction works on Phase One of the extension are progressing well. This month approximately 135,000 cubic metres of overburden have been extracted.
- Commencement of Phase B plantings.
- Waste Assessment undertaken and Draft Waste Assessment Report received from Envirorisk.

EMP Variances

Variance	Reason
Weather Monitoring Station not installed in pit manager's office. (2.1.3)	Awaiting delivery and installation of equipment. Approximately 4 – 6 weeks.
No dust monitoring (other than depositional monthly) in place. (2.1.4)	Awaiting delivery and installation of equipment. Approximately 4 – 6 weeks.

Non-Compliances and Complaints

There were no results obtained during this reporting period that did not fall within the standards set out in *Mt Shamrock Quarry Environmental Management Plan Version 1: 18 January 2008*. There were no complaints received in this reporting period.

Environmental Monitoring Results

Results Synopsis

Results obtained during this period complied with the standards set out in *Mt Shamrock Quarry Environmental Management Plan Version 1: 18 January 2008*. Airborne dust monitoring was limited due to delays in delivery of equipment (refer EMP Variances).

1.1 Rehabilitation and Vegetation

Weed control contractors carried out visual inspection and spraying during appropriate periods.

2.1.4 Air Quality – Dust

Only monthly depositional results are available at this time, see figure 1.0.

		A1	A2	A3	A4	A5	A6	A7
Insoluble	g/m2/month	3.2	1.4	1.7	**	0.6	**	**
Soluble	g/m2/month	2.2	3.1	3.0	**	3.4	**	**

** = Unit damaged or not yet installed

Figure 1.0 Particulate Depositional Rates by Monitoring Location

2.2.4 Operating Noise

All locations returned L_{Aeq} levels lower than the standards set out in *Mt Shamrock Quarry Environmental Management Plan Version 1: 18 January 2008*. At the date of this report there had been no complaints in relation to operating noise and therefore no noise level monitoring at a complainant's residence. Refer to Figure 1.1

2.3.4 Blasting

Ground Vibration and Air Blast measurements conducted by specialist consultants were all within required standards as per *Mt Shamrock Quarry Environmental Management Plan Version 1: 18 January 2008*. Refer to Figures 1.2, 1.3.

2.4.4 Surface and Ground Water

Appropriate visual observations were carried out during this period. All observations were in accordance with the standards set out in *Mt Shamrock Quarry Environmental Management Plan Version 1: 18 January 2008*

2.5.4 Slope Stability

Visual inspections of all the landslips in Toomuc Valley have been carried out after each blast. Visual inspections of the Toomuc Valley landslips were also carried out after each instance of heavy rainfall during this period. There were no morphological variances detected in the landslips as a result of these inspections. Visual inspections have been carried out of vegetation in these areas. All vegetation is healthy and growing well.

2.7.4 Traffic Management

Evaluation of trucks leaving the site concluded that there is minimal material being tracked onto public roadways, that the vast majority of loads are covered and correctly loaded.

Trucks that were non-compliant were informed and advised that continued non-compliance may result in disciplinary action. Refer Figure 1.4

References

Rinker Australia, 2008, *Mt Shamrock Quarry Environmental Management Plan*, Version 1: 18 January 2008, Pakenham

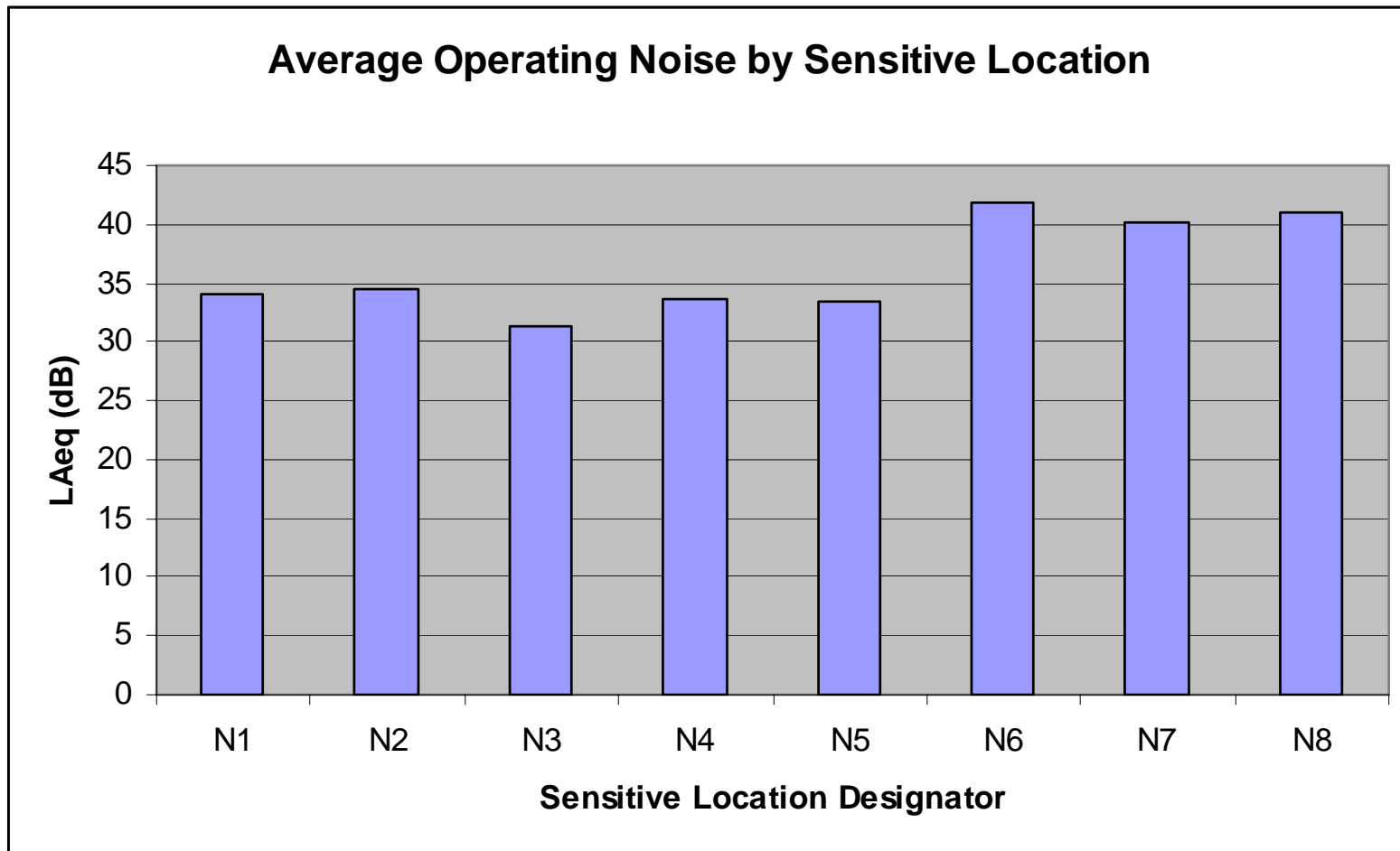


Figure 1.1: Average Daily Values for Noise Monitoring of Sensitive Locations

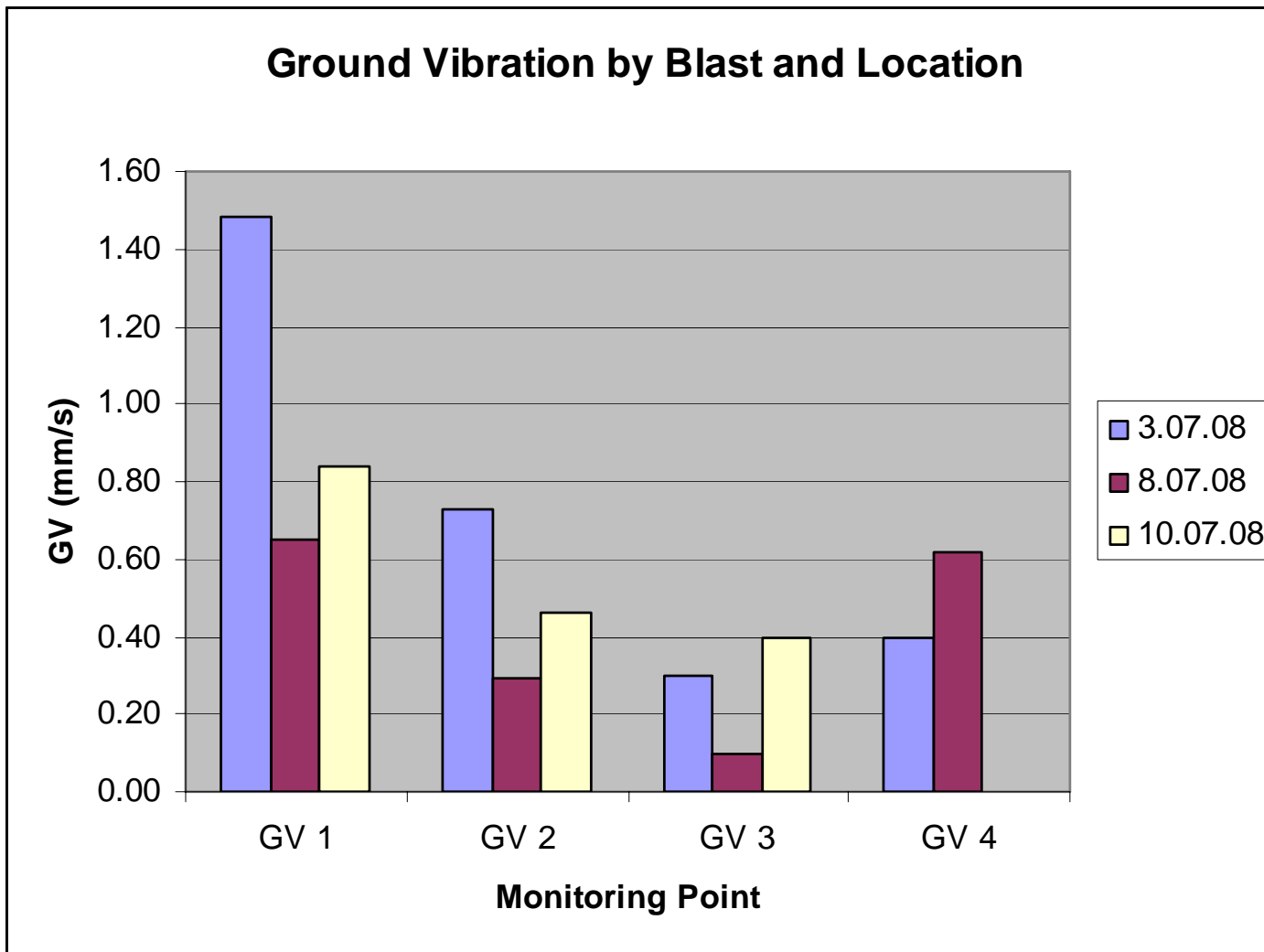


Figure 1.2: Ground Vibration by monitoring location and blast date. (Allowable Limit 5 mm/s)

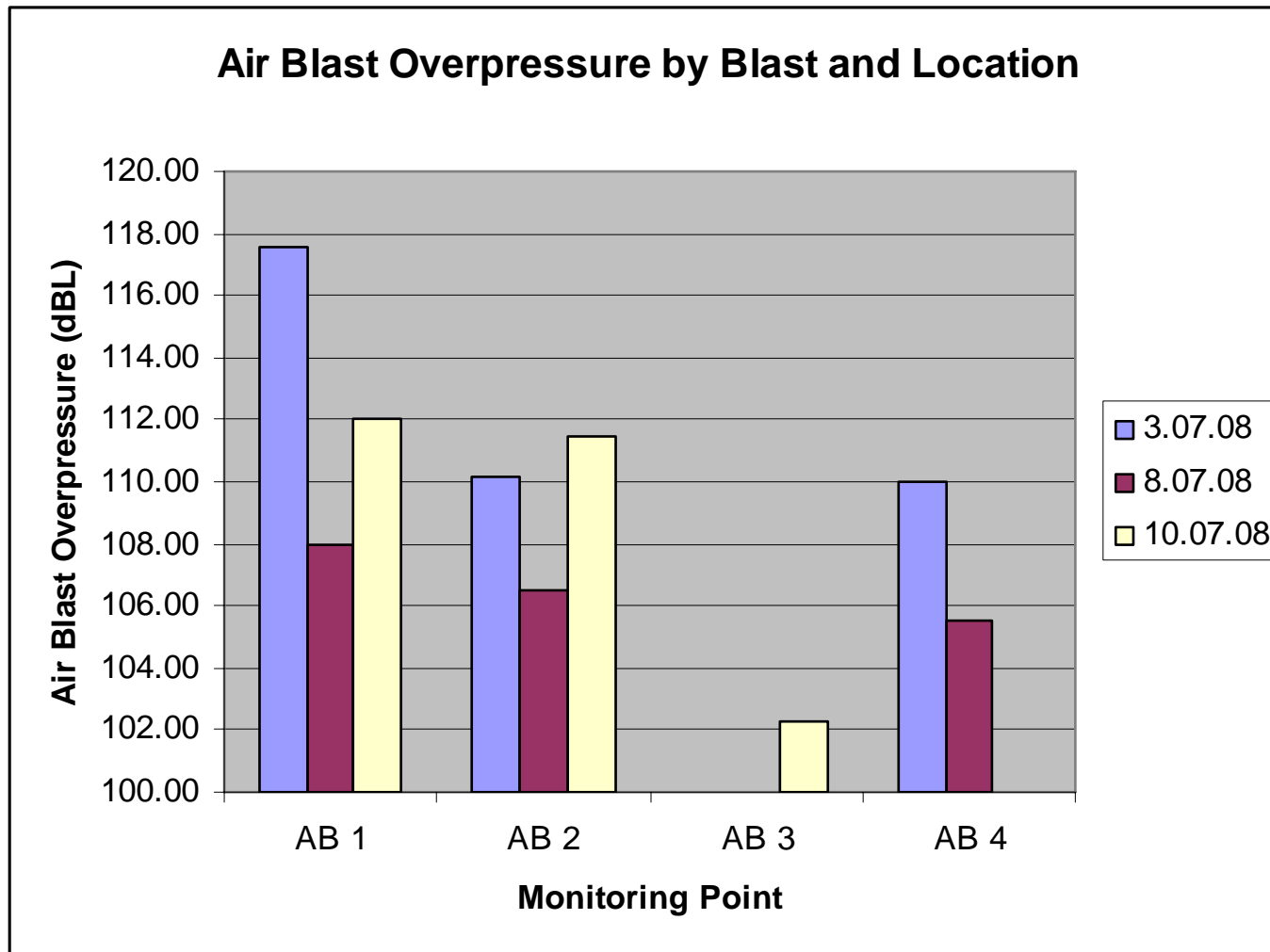


Figure 1.3: Air Blast by monitoring location and blast date. (Allowable Limit 115 dBL in 95% of Blasts, 120 dBL in 5% of Blasts in 12 month period)

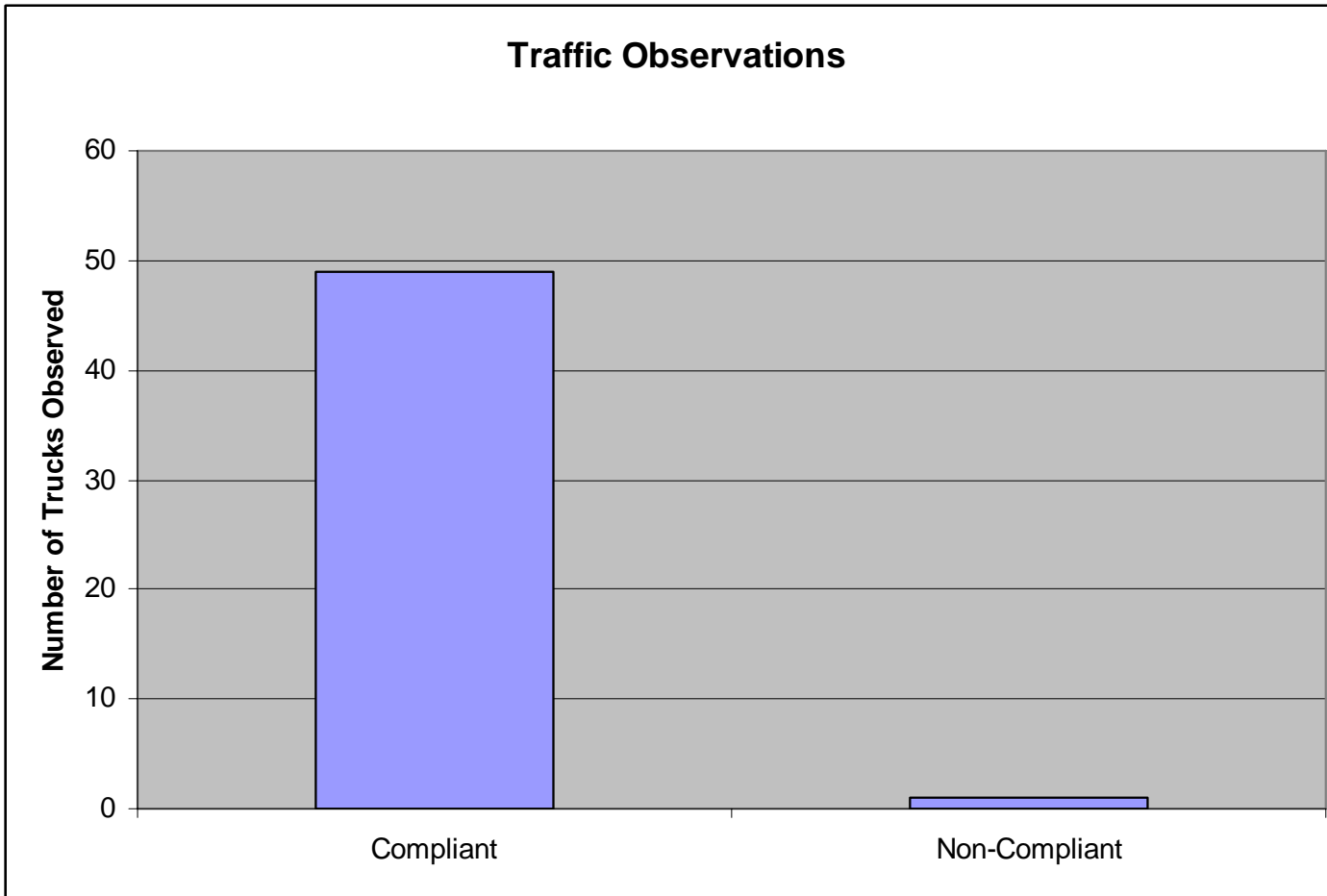


Figure 1.4: Traffic Observations for reporting period