

**WERRIS CREEK COAL  
AEMR 2010-2011**

# **APPENDIX 6**

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**BLAST MONITORING RESULTS**

Shot number	Date fired	Time Fired	Location	Type	Werris Creek Coal Blasting Results											
					Glenala		Marengo		Tonsley Park		Cintra		Werris Creek		COMPLIANCE	
					Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)
275	1/04/2010	13:11			<0.37	<111.9	0.67	100.8	0.35	93.3	0.83	98.6	NM	NM	10	120
276	9/04/2010	13.07			<0.37	<111.9	1.32	108.8	0.55	100.6	0.85	106.9	NM	NM	10	120
277	13/04/2010	13.18			<0.37	<111.9	1.37	101.7	0.9	97.7	1.15	98.6	NM	NM	10	120
278	15/04/2010	13.51			<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	NM	NM	10	120
279	19/04/2010	13.26			<0.37	<111.9	0.82	104.3	0.65	100.6	0.93	105.4	NM	NM	10	120
280	21/04/2010	13.18			<0.37	<111.9	0.45	99.9	<0.37	<111.9	<0.37	<111.9	NM	NM	10	120
281	22/04/2010	13.13			<0.37	<111.9	<0.37	<111.9	0.53	106.6	0.75	110.4	NM	NM	10	120
282	27/04/2010	14.50			<0.37	<111.9	1.45	109.5	0.7	101.2	1.25	106.5	NM	NM	10	120
<b>TOTALS</b>	<b>APRIL</b>	<b># BLAST</b>	<b>8</b>	<b>AVERAGE</b>	-	-	<b>1.01</b>	<b>104.2</b>	<b>0.61</b>	<b>100.0</b>	<b>0.96</b>	<b>104.4</b>	-	-	<b>5</b>	<b>115</b>
<b>TOTALS</b>	<b>APRIL</b>	<b># BLAST</b>	<b>8</b>	<b>HIGHEST</b>	-	-	<b>1.45</b>	<b>109.5</b>	<b>0.90</b>	<b>106.6</b>	<b>1.25</b>	<b>110.4</b>	-	-	<b>10</b>	<b>120</b>
<b>TOTALS</b>	<b>ANNUAL</b>	<b># BLAST</b>	<b>8</b>	<b>AVERAGE</b>	-	-	<b>1.01</b>	<b>104.2</b>	<b>0.61</b>	<b>100.0</b>	<b>0.96</b>	<b>104.4</b>	-	-	<b>5</b>	<b>115</b>

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Shot number	Date fired	Time Fired			Werris Creek Coal Blasting Results											
					Glenala		Marengo		Tonsley Park		Cintra		Werris Creek		COMPLIANCE	
					Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)
283	4/05/2010	13.04			<0.37	<111.9	0.67	103.7	1.08	98.5	0.93	103.7	NM	NM	10	120
284	5/05/2010	13.12			<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	NM	NM	10	120
285	6/05/2010	13.05			<0.37	<111.9	0.57	97.7	0.95	102.8	<0.37	<111.9	NM	NM	10	120
286	7/05/2010	13.08			<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	NM	NM	10	120
287	11/05/2010	13.12			<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	NM	NM	10	120
288	13/05/2010	13.31			<0.37	<111.9	0.6	109	1.03	104.5	1.49	110.2	NM	NM	10	120
289	13/05/2010	13.31			<0.37	<111.9	0.6	109	1.03	104.5	1.49	110.2	NM	NM	10	120
290	17/05/2010	13.08			<0.37	<111.9	0.45	102	0.38	101.8	0.77	107.8	NM	NM	10	120
291	19/05/2010	13.11			<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	NM	NM	10	120
293	21/05/2010	13.04			<0.37	<111.9	<0.37	<111.9	0.45	89.7	0.56	97.7	NM	NM	10	120
294	24/05/2010	13.12			<0.37	<111.9	<0.37	<111.9	0.4	94.6	0.88	100.2	NM	NM	10	120
295	26/05/2010	13.15			<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	0.83	106.5	NM	NM	10	120
296	31/05/2010	13.13			<0.37	<111.9	0.7	107.1	0.7	107.1	0.56	104.6	NM	NM	10	120
<b>TOTALS</b>	<b>MAY</b>	<b># BLAST</b>	<b>13</b>	<b>AVERAGE</b>	-	-	<b>0.60</b>	<b>104.8</b>	<b>0.75</b>	<b>100.4</b>	<b>0.94</b>	<b>105.1</b>	-	-	<b>5</b>	<b>115</b>
<b>TOTALS</b>	<b>MAY</b>	<b># BLAST</b>	<b>13</b>	<b>HIGHEST</b>	-	-	<b>0.70</b>	<b>109.0</b>	<b>1.08</b>	<b>107.1</b>	<b>1.49</b>	<b>110.2</b>	-	-	<b>10</b>	<b>120</b>
<b>TOTALS</b>	<b>ANNUAL</b>	<b># BLAST</b>	<b>21</b>	<b>AVERAGE</b>	-	-	<b>0.81</b>	<b>104.5</b>	<b>0.68</b>	<b>100.2</b>	<b>0.95</b>	<b>104.8</b>	-	-	<b>5</b>	<b>115</b>

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Shot number	Date fired	Time Fired			Werris Creek Coal Blasting Results											
					Glenala		Marengo		Tonsley Park		Cintra		Werris Creek		COMPLIANCE	
					Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)
297	2/06/2010	13.17			<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	0.48	108.4	NM	NM	10	120
292	7/06/2010	13.17			<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	NM	NM	10	120
298	8/06/2010	13.15			<0.37	<111.9	0.4	107.5	<0.37	<111.9	0.64	108.4	NM	NM	10	120
299	11/06/2010	14.19			<0.37	<111.9	<0.37	<111.9	0.75	97.7	1.09	103.7	NM	NM	10	120
300	15/06/2010	13.34			<0.37	<111.9	0.45	110.1	0.68	110	0.77	118	NM	NM	10	120
301	22/06/2010	13.10.			<0.37	<111.9	0.52	99.4	1.03	103.7	1.52	112	NM	NM	10	120
302	17/06/2010	13.15			<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	NM	NM	10	120
303	18/06/2010	13.02			<0.37	<111.9	<0.37	<111.9	0.6	100	1.07	99.4	NM	NM	10	120
304	24/06/2010	13.13			<0.37	<111.9	<0.37	<111.9	0.53	103.7	0.85	112	NM	NM	10	120
305	25/06/2010	13.17			<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	NM	NM	10	120
306	29/06/2010	13.18			<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	0.56	104.6	NM	NM	10	120
307	30/06/2010	13.28			<0.37	<111.9	0.54	107	0.88	102.8	1.6	109.9	NM	NM	10	120
<b>TOTALS</b>	<b>JUNE</b>	<b># BLAST</b>	<b>12</b>	<b>AVERAGE</b>	-	-	<b>0.48</b>	<b>106.0</b>	<b>0.75</b>	<b>103.0</b>	<b>0.95</b>	<b>108.5</b>	-	-	<b>5</b>	<b>115</b>
<b>TOTALS</b>	<b>JUNE</b>	<b># BLAST</b>	<b>12</b>	<b>HIGHEST</b>	-	-	<b>0.54</b>	<b>110.1</b>	<b>1.03</b>	<b>110.0</b>	<b>1.60</b>	<b>118.0</b>	-	-	<b>10</b>	<b>120</b>
<b>TOTALS</b>	<b>ANNUAL</b>	<b># BLAST</b>	<b>33</b>	<b>AVERAGE</b>	-	-	<b>0.70</b>	<b>105.0</b>	<b>0.70</b>	<b>101.1</b>	<b>0.95</b>	<b>106.0</b>	-	-	<b>5</b>	<b>115</b>

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					Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)
308	1/07/2010	13.15			<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	NM	NM	10	120
309	2/07/2010	13.1			<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	NM	NM	10	120
310	7/07/2010	13.24			<0.37	<111.9	<0.37	<111.9	0.77	105.4	1.5	114.8	NM	NM	10	120
311	7/07/2010	13.24			<0.37	<111.9	<0.37	<111.9	0.77	105.4	1.5	114.8	NM	NM	10	120
312	13/07/2010	13.17			<0.37	<111.9	<0.37	<111.9	0.48	106.6	0.85	113.8	<0.37	<111.9	10	120
313	19/07/2010	13.13			<0.37	<111.9	<0.37	<111.9	0.6	111.1	1.04	117.7	<0.37	<111.9	10	120
314	16/07/2010	13.1			<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	10	120
315	20/07/2010	13.11			<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	10	120
316	26/07/2010	13.41			<0.37	<111.9	0.07	112.9	0.5	109.1	1.2	114.6	<0.37	<111.9	10	120
317	21/07/2010	13.13			<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	10	120
319	29/07/2010	13.17			<0.37	<111.9	<0.37	<111.9	0.98	94.6	1.01	100.8	<0.37	<111.9	10	120
<b>TOTALS</b>	<b>JULY</b>	<b># BLAST</b>	<b>11</b>	<b>AVERAGE</b>	-	-	<b>0.07</b>	<b>112.9</b>	<b>0.68</b>	<b>105.4</b>	<b>1.18</b>	<b>112.8</b>	-	-	<b>5</b>	<b>115</b>
<b>TOTALS</b>	<b>JULY</b>	<b># BLAST</b>	<b>11</b>	<b>HIGHEST</b>	-	-	<b>0.07</b>	<b>112.9</b>	<b>0.98</b>	<b>111.1</b>	<b>1.50</b>	<b>117.7</b>	-	-	<b>10</b>	<b>120</b>
<b>TOTALS</b>	<b>ANNUAL</b>	<b># BLAST</b>	<b>44</b>	<b>AVERAGE</b>	-	-	<b>0.54</b>	<b>107.0</b>	<b>0.70</b>	<b>102.2</b>	<b>1.01</b>	<b>107.7</b>	-	-	<b>5</b>	<b>115</b>

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Shot number	Date fired	Time Fired	Location	Type	Werris Creek Coal Blasting Results										COMPLIANCE	
					Glenala		Marengo		Tonsley Park		Cintra		Werris Creek		Vib (mm/s)	OP (dB)
					Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)		
318	2/08/2010	13:18	Strip 13	OB	<0.37	<111.9	0.42	104.9	0.83	109.7	1.49	114.3	<0.37	<111.9	10	120
320	4/08/2010	13:21	Strip 13	OB	<0.37	<111.9	0.07	112.2	<0.37	<111.9	0.08	113.2	<0.37	<111.9	10	120
321	6/08/2010	14:02	Strip 10	OB	<0.37	<111.9	<0.37	<111.9	0.4	101.8	0.62	108.4	<0.37	<111.9	10	120
322	12/08/2010	13:12	Strip 9	IB	<0.37	<111.9	<0.37	<111.9	0.4	100.6	0.52	104.6	<0.37	<111.9	10	120
323	17/08/2010	13:22	Strip 10	OB	<0.37	<111.9	<0.37	<111.9	0.6	100.6	0.67	106.4	NM	NM	10	120
324	23/08/2010	13:14	Strip 9	IB	<0.37	<111.9	<0.37	<111.9	0.57	103.1	0.35	96.8	<0.37	<111.9	10	120
325	25/08/2010	13:23	Strip 9	IB	0.1	114.7	<0.37	<111.9	<0.37	<111.9	0.07	113.7	<0.37	<111.9	10	120
326	25/08/2010	13:23	Strip 10	WE	0.1	114.7	<0.37	<111.9	<0.37	<111.9	0.07	113.7	<0.37	<111.9	10	120
<b>TOTALS</b>	<b>AUGUST</b>	<b># BLAST</b>	<b>8</b>	<b>AVERAGE</b>	<b>0.10</b>	<b>114.7</b>	<b>0.25</b>	<b>108.6</b>	<b>0.56</b>	<b>103.2</b>	<b>0.48</b>	<b>108.9</b>	-	-	<b>5</b>	<b>115</b>
<b>TOTALS</b>	<b>AUGUST</b>	<b># BLAST</b>	<b>8</b>	<b>HIGHEST</b>	<b>0.10</b>	<b>114.7</b>	<b>0.42</b>	<b>112.2</b>	<b>0.83</b>	<b>109.7</b>	<b>1.49</b>	<b>114.3</b>	-	-	<b>10</b>	<b>120</b>
<b>TOTALS</b>	<b>ANNUAL</b>	<b># BLAST</b>	<b>52</b>	<b>AVERAGE</b>	<b>0.10</b>	<b>114.7</b>	<b>0.48</b>	<b>107.3</b>	<b>0.67</b>	<b>102.4</b>	<b>0.90</b>	<b>107.9</b>	-	-	<b>5</b>	<b>115</b>

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					Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)
327	3/09/2010	13:12	Strip 9	IB	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	0.42	111.3	<0.37	<111.9	10	120
328	8/09/2010	13:12	Strip 10	IB	<0.37	<111.9	<0.37	<111.9	1.05	105.7	1.17	111.7	<0.37	<111.9	10	120
329	7/09/2010	13:43	Strip 9	IB	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	10	120
330	15/09/2010	13:10	Strip 9	IB	<0.37	<111.9	<0.37	<111.9	0.53	105.7	0.92	110.2	<0.37	<111.9	10	120
331	21/09/2010	12:36	Strip 10	IB	<0.37	<111.9	<0.37	<111.9	0.55	103.7	0.9	108.4	<0.37	<111.9	10	120
332	24/09/2010	13:12	Strip 9	IB	<0.37	<111.9	<0.37	<111.9	0.68	107.2	1	110.9	<0.37	<111.9	10	120
333	24/09/2010	13:12	Strip 9	IB	<0.37	<111.9	<0.37	<111.9	0.68	107.2	1	110.9	<0.37	<111.9	10	120
334	30/09/2010	13:13	Strip 10	THRU	<0.37	<111.9	<0.37	<111.9	0.5	105.3	1.15	112	<0.37	<111.9	10	120
<b>TOTALS</b>	<b>SEPTEMBER</b>	<b># BLAST</b>	<b>8</b>	<b>AVERAGE</b>	-	-	-	-	<b>0.67</b>	<b>105.8</b>	<b>0.94</b>	<b>110.8</b>	-	-	<b>5</b>	<b>115</b>
<b>TOTALS</b>	<b>SEPTEMBER</b>	<b># BLAST</b>	<b>8</b>	<b>HIGHEST</b>	-	-	-	-	<b>1.05</b>	<b>107.2</b>	<b>1.17</b>	<b>112.0</b>	-	-	<b>10</b>	<b>120</b>
<b>TOTALS</b>	<b>ANNUAL</b>	<b># BLAST</b>	<b>60</b>	<b>AVERAGE</b>	<b>0.10</b>	<b>114.7</b>	<b>0.48</b>	<b>107.3</b>	<b>0.67</b>	<b>103.0</b>	<b>0.91</b>	<b>108.4</b>	-	-	<b>5</b>	<b>115</b>

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					Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)
335	7/10/2010	14:35	Strip 10	IB	<0.37	<111.9	NM	NM	0.63	106	1	112	<0.37	<111.9	10	120
336	12/10/2010	13:12	Strip 10	IB	<0.37	<111.9	NM	NM	0.6	93.3	1.12	99.6	<0.37	<111.9	10	120
337	11/10/2010	13:16	Strip 9	WE	<0.37	<111.9	NM	NM	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	10	120
338	13/10/2010	13:12	Strip 10	IB	<0.37	<111.9	NM	NM	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	10	120
339	22/10/2010	13:19	Strip 11	OB	<0.37	<111.9	NM	NM	0.6	113.3	0.9	107.5	<0.37	<111.9	10	120
340	25/10/2010	13:16	Strip 9	IB	<0.37	<111.9	NM	NM	0.5	106.8	0.7	113.7	<0.37	<111.9	10	120
341	27/10/2010	13:15	Strip 10	OB	<0.37	<111.9	NM	NM	0.97	105.8	0.62	112.1	<0.37	<111.9	10	120
342	26/10/2010		Strip 10	IB	<0.37	<111.9	NM	NM	0.4	87.2	0.9	113.3	<0.37	<111.9	10	120
343	29/10/2010	13:44	Strip 9	IB	<0.37	<111.9	NM	NM	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	10	120
<b>TOTALS</b>	<b>OCTOBER</b>	<b># BLAST</b>	<b>9</b>	<b>AVERAGE</b>	-	-	-	-	<b>0.62</b>	<b>102.1</b>	<b>0.87</b>	<b>109.7</b>	-	-	<b>5</b>	<b>115</b>
<b>TOTALS</b>	<b>OCTOBER</b>	<b># BLAST</b>	<b>9</b>	<b>HIGHEST</b>	-	-	-	-	<b>0.97</b>	<b>113.3</b>	<b>1.12</b>	<b>113.7</b>	-	-	<b>10</b>	<b>120</b>
<b>TOTALS</b>	<b>ANNUAL</b>	<b># BLAST</b>	<b>69</b>	<b>AVERAGE</b>	<b>0.10</b>	<b>114.7</b>	<b>0.48</b>	<b>107.3</b>	<b>0.66</b>	<b>102.8</b>	<b>0.90</b>	<b>108.6</b>	-	-	<b>5</b>	<b>115</b>

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Shot number	Date fired	Time Fired	Location	Type	Werris Creek Coal Blasting Results											
					Glenala		Marengo		Tonsley Park		Cintra		Werris Creek		COMPLIANCE	
					Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)
344	5/11/2010	14:24	Strip 11	OB	<0.37	<111.9	NM	NM	0.58	95.8	0.92	112.2	<0.37	<111.9	10	120
345	3/11/2010	13:13	Strip 10	IB	<0.37	<111.9	NM	NM	0.42	101.7	0.6	93.3	<0.37	<111.9	10	120
346	5/11/2010	12:32	Strip 9	IB	<0.37	<111.9	NM	NM	0.8	100.6	0.47	112.2	<0.37	<111.9	10	120
347	5/11/2010	12:32	Strip 10	TR	<0.37	<111.9	NM	NM	0.8	100.6	0.47	112.2	<0.37	<111.9	10	120
348	10/11/2010	13:18	Strip 10	IB	<0.37	<111.9	NM	NM	1	99	2.39	104.9	<0.37	<111.9	10	120
349	15/11/2010	13:25	Strip 9	IB	<0.37	<111.9	NM	NM	0.53	102.8	0.52	108.6	<0.37	<111.9	10	120
350	18/11/2010	13:14	Strip 10	IB	<0.37	<111.9	NM	NM	0.8	104.6	0.4	99.3	<0.37	<111.9	10	120
351	23/11/2010	13:48	Strip 10	IB	<0.37	<111.9	NM	NM	0.78	105.6	1.37	114.8	<0.37	<111.9	10	120
352	24/11/2010	13:13	Strip 9		<0.37	<111.9	NM	NM	<0.37	<111.9	0.47	115.5	<0.37	<111.9	10	120
353	26/11/2010	13:13	Strip 10	IB	<0.37	<111.9	NM	NM	<0.37	<111.9	0.42	111.6	<0.37	<111.9	10	120
<b>TOTALS</b>	<b>NOVEMBER</b>	<b># BLAST</b>	<b>10</b>	<b>AVERAGE</b>	-	-	-	-	<b>0.71</b>	<b>101.3</b>	<b>0.80</b>	<b>108.5</b>	<b>&lt;0.37</b>	<b>&lt;111.9</b>	<b>5</b>	<b>115</b>
<b>TOTALS</b>	<b>NOVEMBER</b>	<b># BLAST</b>	<b>10</b>	<b>HIGHEST</b>	-	-	-	-	<b>1.00</b>	<b>105.6</b>	<b>2.39</b>	<b>115.5</b>	<b>&lt;0.37</b>	<b>&lt;111.9</b>	<b>10</b>	<b>120</b>
<b>TOTALS</b>	<b>ANNUAL</b>	<b># BLAST</b>	<b>79</b>	<b>AVERAGE</b>	<b>0.10</b>	<b>114.7</b>	<b>0.48</b>	<b>107.3</b>	<b>0.67</b>	<b>102.6</b>	<b>0.89</b>	<b>108.6</b>	<b>&lt;0.37</b>	<b>&lt;111.9</b>	<b>5</b>	<b>115</b>

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Shot number	Date fired	Time Fired	Location	Type	Werris Creek Coal Blasting Results											
					Glenala		Greenslopes		Tonsley Park		Cintra*		Werris Creek		COMPLIANCE	
					Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)
354	1/12/2010	13:14	Strip 10	TS	<0.37	<111.9	NM	NM	0.77	109.0	0.53	107.2	<0.37	<111.9	10.00	120.0
355	2/12/2010	13:03	Strip 10	PS	<0.37	<111.9	NM	NM	1.32	95.6	0.75	91.7	<0.37	<111.9	10.00	120.0
356	3/12/2010	13:18	Strip 10	WE	<0.37	<111.9	NM	NM	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	10.00	120.0
357	8/12/2010	13:12	Strip 10	IB	<0.37	<111.9	NM	NM	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	10.00	120.0
358	10/12/2010	9:30	Strip 10	TS	<0.37	<111.9	NM	NM	0.38	98.5	0.62	101.7	<0.37	<111.9	10.00	120.0
359	20/12/2010	14:30	Strip 10	IB	<0.37	<111.9	NM	NM	<0.37	<111.9	0.12	113.8	<0.37	<111.9	10.00	120.0
<b>TOTALS</b>	<b>DECEMBER</b>	<b># BLAST</b>	<b>6</b>	<b>AVERAGE</b>	<b>&lt;0.37</b>	<b>&lt;111.9</b>	<b>-</b>	<b>-</b>	<b>0.82</b>	<b>101.0</b>	<b>0.51</b>	<b>103.6</b>	<b>&lt;0.37</b>	<b>&lt;111.9</b>	<b>5.00</b>	<b>115.0</b>
<b>TOTALS</b>	<b>DECEMBER</b>	<b># BLAST</b>	<b>6</b>	<b>HIGHEST</b>	<b>&lt;0.37</b>	<b>&lt;111.9</b>	<b>-</b>	<b>-</b>	<b>1.32</b>	<b>109.0</b>	<b>0.75</b>	<b>113.8</b>	<b>&lt;0.37</b>	<b>&lt;111.9</b>	<b>10.00</b>	<b>120.0</b>
<b>TOTALS</b>	<b>ANNUAL</b>	<b># BLAST</b>	<b>85</b>	<b>AVERAGE</b>	<b>0.10</b>	<b>114.7</b>	<b>0.48</b>	<b>107.3</b>	<b>0.69</b>	<b>102.5</b>	<b>0.85</b>	<b>108.0</b>	<b>&lt;0.37</b>	<b>&lt;111.9</b>	<b>5.00</b>	<b>115.0</b>

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Shot number	Date fired	Time Fired	Location	Type	Werris Creek Coal Blasting Results											
					Glenala		Greenslopes		Tonsley Park		Cintra*		Werris Creek		COMPLIANCE	
					Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)
11-01	6/01/2011	13:13	Strip 11	OB	<0.37	<111.9	NM	NM	0.42	109.1	0.78	113.7	<0.37	<111.9	10.00	120.0
11-02	11/01/2011	13:34	Strip 9	IB	<0.37	<111.9	NM	NM	<0.37	<111.9	<0.37	<111.9	<0.23	<109.9	10.00	120.0
11-03	19/01/2011	15:15	Strip 10	THRU	<0.37	<111.9	NM	NM	0.55	104.5	1.47	109.3	<0.23	<109.9	10.00	120.0
11-04	25/01/2011	13:54	Strip 9	IB	<0.37	<111.9	NM	NM	0.38	108.4	0.42	114.2	<0.23	<109.9	10.00	120.0
11-05	21/01/2011	13:42	Strip 10	IB	<0.37	<111.9	NM	NM	<0.37	<111.9	<0.37	<111.9	<0.23	<109.9	10.00	120.0
<b>TOTALS</b>	<b>JANUARY</b>	<b># BLAST</b>	<b>5</b>	<b>AVERAGE</b>	<b>&lt;0.37</b>	<b>&lt;111.9</b>	<b>-</b>	<b>-</b>	<b>0.45</b>	<b>107.3</b>	<b>0.89</b>	<b>112.4</b>	<b>&lt;0.37</b>	<b>&lt;111.9</b>	<b>5.00</b>	<b>115.0</b>
<b>TOTALS</b>	<b>JANUARY</b>	<b># BLAST</b>	<b>5</b>	<b>HIGHEST</b>	<b>&lt;0.37</b>	<b>&lt;111.9</b>	<b>-</b>	<b>-</b>	<b>0.55</b>	<b>109.1</b>	<b>1.47</b>	<b>114.2</b>	<b>&lt;0.37</b>	<b>&lt;111.9</b>	<b>10.00</b>	<b>120.0</b>
<b>TOTALS</b>	<b>ANNUAL</b>	<b># BLAST</b>	<b>90</b>	<b>AVERAGE</b>	<b>0.10</b>	<b>114.7</b>	<b>0.48</b>	<b>107.3</b>	<b>0.66</b>	<b>103.0</b>	<b>0.85</b>	<b>108.5</b>	<b>&lt;0.37</b>	<b>&lt;111.9</b>	<b>5.00</b>	<b>115.0</b>

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Shot number	Date fired	Time Fired	Location	Type	Werris Creek Coal Blasting Results											
					Glenala		Greenslopes		Tonsley Park		Cintra*		Werris Creek		COMPLIANCE	
					Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)
11-06	1/02/2011	11:16	S9_10-15_300	IB	NM	NM	<0.37	<111.9	0.4	89.7	0.47	102	<0.37	<111.9	10.00	120.0
11-07	9/02/2011	13.51	S10_18_330TSB5	THRU S	NM	NM	<0.37	<111.9	1.1	108.8	1.82	113	0.51	94.1	10.00	120.0
11-08	14/02/2011	15.18	S9_6-7_Gseam	IB	NM	NM	0.7	110.1	0.65	109.5	0.75	111.5	<0.23	<109.9	10.00	120.0
11-09	17/02/2011	13.51	S10_8-9R_Ccoal	IB	NM	NM	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	<0.23	<109.9	10.00	120.0
11-10	23/02/2011	16.15	S9_8-12_Gcoal	IB	NM	NM	<0.37	<111.9	0.73	100.6	1.25	104.5	<0.23	<109.9	10.00	120.0
11-11	25/02/2011	15.34	S10_11-12R_Ccoal	IB	NM	NM	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	<0.23	<109.9	10.00	120.0
<b>TOTALS</b>	<b>FEBRUARY</b>	<b># BLAST</b>	<b>6</b>	<b>AVERAGE</b>	<b>&lt;0.37</b>	<b>&lt;111.9</b>	<b>0.70</b>	<b>110.1</b>	<b>0.72</b>	<b>102.2</b>	<b>1.07</b>	<b>107.8</b>	<b>0.51</b>	<b>94.1</b>	<b>5.00</b>	<b>115.0</b>
<b>TOTALS</b>	<b>FEBRUARY</b>	<b># BLAST</b>	<b>6</b>	<b>HIGHEST</b>	<b>&lt;0.37</b>	<b>&lt;111.9</b>	<b>0.70</b>	<b>110.1</b>	<b>1.10</b>	<b>109.5</b>	<b>1.82</b>	<b>113.0</b>	<b>0.51</b>	<b>94.1</b>	<b>10.00</b>	<b>120.0</b>
<b>TOTALS</b>	<b>ANNUAL</b>	<b># BLAST</b>	<b>96</b>	<b>AVERAGE</b>	<b>0.10</b>	<b>114.7</b>	<b>0.70</b>	<b>110.1</b>	<b>0.67</b>	<b>102.9</b>	<b>0.87</b>	<b>108.4</b>	<b>0.51</b>	<b>94.1</b>	<b>5.00</b>	<b>115.0</b>

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					Glenala		Greenslopes		Tonsley Park		Cintra*		Werris Creek		COMPLIANCE	
					Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)
11-12	4/03/2011	14.51	S10_11-12_Fcoal Pt1	IB	NM	NM	<0.37	<111.9	<0.37	<111.9	0.45	100.3	<0.23	<109.9	10.00	120.0
11-13	10/03/2011	13.22	S9_8-12_Gcoal Pt2	IB	NM	NM	1.01	101.5	0.73	99.3	0.8	102.2	0.42	94.2	10.00	120.0
11-14	17/03/2011	13.53	S10_11-12_Fcoal Pt2	IB	NM	NM	<0.37	<111.9	0.48	87.2	0.47	105.7	<0.23	<109.9	10.00	120.0
11-15	22/03/2011	13.12	S9_8-12_Gcoal Pt3	IB	NM	NM	1.07	99.7	1.01	94.2	1.44	101.5	0.48	99.8	10.00	120.0
11-16	24/03/2011	13.27	S10_11-13_DE coal	IB	NM	NM	<0.37	<111.9	<0.37	<111.9	<0.37	<111.9	<0.23	<109.9	10.00	120.0
11-17	29/03/2011	15.3	S9_13-15_Gcoal	IB	NM	NM	<0.37	<111.9	0.81	100.2	1.15	110.3	<0.23	<109.9	10.00	120.0
<b>TOTALS</b>	<b>MARCH</b>	<b># BLAST</b>	<b>6</b>	<b>AVERAGE</b>	<b>&lt;0.37</b>	<b>&lt;111.9</b>	<b>1.04</b>	<b>100.6</b>	<b>0.76</b>	<b>95.2</b>	<b>0.86</b>	<b>104.0</b>	<b>0.45</b>	<b>97.0</b>	<b>5.00</b>	<b>115.0</b>
<b>TOTALS</b>	<b>MARCH</b>	<b># BLAST</b>	<b>6</b>	<b>HIGHEST</b>	<b>&lt;0.37</b>	<b>&lt;111.9</b>	<b>1.07</b>	<b>101.5</b>	<b>1.01</b>	<b>100.2</b>	<b>1.44</b>	<b>110.3</b>	<b>0.48</b>	<b>99.8</b>	<b>10.00</b>	<b>120.0</b>
<b>TOTALS</b>	<b>ANNUAL</b>	<b># BLAST</b>	<b>102</b>	<b>AVERAGE</b>	<b>0.10</b>	<b>114.7</b>	<b>0.59</b>	<b>106.7</b>	<b>0.68</b>	<b>102.2</b>	<b>0.87</b>	<b>108.0</b>	<b>0.48</b>	<b>95.6</b>	<b>5.00</b>	<b>115.0</b>

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