

Duralie Coal Mine - Six Monthly Environmental Monitoring Report
4 September 2009 to February 2010 (inclusive)

Blasting Results

For monitoring locations
refer to Figure 3 "Blast/Vibration Monitoring Sites"

Date	Holmes		Doherty		Schultz		Bailey		Site Exceedance	Monitored Blasts ¹	"Cumulative Exceedance" ₁
	mm/s	dBL	mm/s	dBL	mm/s	dBL	mm/s	dBL	%		
04-Sep-09	1.21	109.4	1.72	111.7	<0.22	<110.0			0.0%	1	0
08-Sep-09	1.11	104.6	0.81	89.4	<0.22	<110.0			0.0%	2	0
14-Sep-09	0.83	107.3	<0.22	<110.0	<0.22	<110.0			0.0%	3	0
17-Sep-09	1.01	107.3	0.62	99.8	<0.22	<110.0			0.0%	4	0
18-Sep-09	0.45	106.1	1.38	97.4	<0.22	<110.0			0.0%	5	0
21-Sep-09	0.3	112.3	<0.22	<110.0	<0.22	<110.0			0.0%	6	0
23-Sep-09	0.55	109.4	0.62	94.5	<0.22	<110.0			0.0%	7	0
25-Sep-09	<0.22	<110.0	<0.22	<110.0	<0.22	<110.0			0.0%	8	0
29-Sep-09	0.65	117.9	1.01	96.3	<0.22	<110.0			11.1%	9	1
30-Sep-09	1.11	101.9	0.56	83.4	<0.22	<110.0			10.0%	10	1
07-Oct-09	0.43	104.6	0.52	106.4	<0.22	<110.0			9.1%	11	1
09-Oct-09	0.63	117.4	0.98	91	<0.22	<110.0			16.7%	12	2
15-Oct-09	0.7	116.9	1.38	91	<0.22	<110.0			23.1%	13	3
19-Oct-09	<0.22	<110.0	1.67	88.5	<0.22	<110.0			21.4%	14	3
20-Oct-09	0.73	114.2	0.88	89.4	<0.22	<110.0			20.0%	15	3
23-Oct-09	1.11	131.8	0.56	86.3	<0.22	<110.0			25.0%	16	4
27-Oct-09	0.35	105.4	0.48	99.8	<0.22	<110.0			23.5%	17	4
29-Oct-09	0.38	101.9	0.4	83.4	<0.22	<110.0			22.2%	18	4
03-Nov-09	<0.22	<110.0	<0.22	<110.0	<0.22	<110.0			21.1%	19	4
05-Nov-09	0.75	117.2	0.41	88.5	<0.22	<110.0			25.0%	20	5
10-Nov-09	<0.22	<110.0	<0.22	<110.0	<0.22	<110.0			23.8%	21	5
13-Nov-09	0.08	111	0.42	103.6	<0.22	<110.0			22.7%	22	5
19-Nov-09	0.85	103.8	1.22	90.2	<0.22	<110.0	Installed ²		21.7%	23	5
24-Nov-09	Discontinued ²		0.98	101.7	<0.22	<110.0	<0.22	<110.0	20.8%	24	5
25-Nov-09			0.68	83.4	<0.22	<110.0	<0.22	<110.0	20.0%	25	5
25-Nov-09			<0.22	<110.0	<0.22	<110.0	<0.22	<110.0	19.2%	26	5
26-Nov-09			<0.22	<110.0	<0.22	<110.0	<0.22	<110.0	18.5%	27	5
02-Dec-09			1.14	90.2	<0.22	<110.0	0.3	97.8	17.9%	28	5
04-Dec-09			0.95	94	<0.22	<110.0	0.45	102.4	17.2%	29	5
08-Dec-09			0.68	92.3	<0.22	<110.0	<0.22	<110.0	16.7%	30	5
14-Dec-09			0.97	99.2	<0.22	<110.0	<0.22	<110.0	16.1%	31	5
15-Dec-09			0.86	88.5	<0.22	<110.0	<0.22	<110.0	15.6%	32	5
16-Dec-09			<0.22	<110.0	<0.22	<110.0	<0.22	<110.0	15.2%	33	5

Note 1 Refers to exceedance of 115dBL o/p or 5mm/s ground vibration during current AEMR period. Period ends 3/9/10.

Note 2 Holmes monitor relocated to Bailey property upon Environment Protection Authority (EPA) Environment Protection Licence (EPL) variation to permit. Holmes property acquired by Gloucester Coal Limited prior to this reporting period.

Blasting Results (continued)

Date	Holmes		Doherty		Schultz		Bailey		Site Exceedance	Monitored Blasts ¹	"Cumulative Exceedance" ₁
	mm/s	dBL	mm/s	dBL	mm/s	dBL	mm/s	dBL	%		
21-Dec-09			0.95	90.2	<0.22	<110.0	1.06	109.4	14.7%	34	5
23-Dec-09			<0.22	<110.0	<0.22	<110.0	<0.22	<110.0	14.3%	35	5
24-Dec-09			0.33	102.3	<0.22	<110.0	<0.22	<110.0	13.9%	36	5
05-Jan-10			0.68	75.4	<0.22	<110.0	0.33	95.8	13.5%	37	5
16-Jan-10			<0.22	<110.0	<0.22	<110.0	<0.22	<110.0	13.2%	38	5
19-Jan-10			0.41	83.4	<0.22	<110.0	<0.22	<110.0	12.8%	39	5
27-Jan-10			1.21	92.3	<0.22	<110.0	0.53	107.3	12.5%	40	5
09-Feb-10			1.38	87.5	<0.22	<110.0	1.06	100.1	12.2%	41	5
17-Feb-10			0.37	104.5	<0.22	<110.0	<0.22	<110.0	11.9%	42	5
22-Feb-10			0.28	102.5	<0.22	<110.0	0.25	104.2	11.6%	43	5
24-Feb-10			0.42	79	<0.22	<110.0	0.43	109.8	11.4%	44	5
26-Feb-10			0.57	81.4	<0.22	<110.0	0.33	93.3	11.1%	45	5

Note 1 Refers to exceedance of 115dBL o/p or 5mm/s ground vibration during current AEMR period. Period ends 3/9/10.

Note 2 Holmes monitor relocated to Bailey property upon Environment Protection Authority (EPA) Environment Protection Licence (EPL) variation to permit. Holmes property acquired by Gloucester Coal Limited prior to this reporting period.

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High Volume Air Sampling

**For monitoring locations
refer to Figure 2 "Air Quality Monitoring Sites"**

Date	High Noon (PM₁₀ ug/m³)	Twin Houses (PM₁₀ ug/m³)
04-Sep-09	12	11
10-Sep-09	6	9
16-Sep-09	26	28
22-Sep-09	22	46
28-Sep-09	16	21
04-Oct-09	7	7
10-Oct-09	4	4
16-Oct-09	11	18
22-Oct-09	22	21
28-Oct-09	8	9
03-Nov-09	28	25
09-Nov-09	11	13
15-Nov-09	20	22
21-Nov-09	49	53
27-Nov-09	28	37
03-Dec-09	12	10
09-Dec-09	19	22
15-Dec-09	9	8
21-Dec-09	13	15
27-Dec-09	4	4
02-Jan-10	9	10
08-Jan-10	14	14
14-Jan-10	13	12
20-Jan-10	16	18
26-Jan-10	25	28
01-Feb-10	13	13
07-Feb-10	9	13
13-Feb-10	18	16
19-Feb-10	15	14
25-Feb-10	15	16

* Note: many small insects observed on "Twin Houses" sample paper

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Dust Deposition (g/m²/month)

Location	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10
D1	0.8	1.2	0.8	1.8	0.5	1.2
D2	1.8	1.0	1.4	2.8	3.2	0.9
D3	1.1	1.4	1.0	1.7	ND	3.6
D4	0.8	1.2	1.4	3.4	ND	0.4
D5	0.9	4.5	1.7	1.9	ND	1.6
D7	0.8	0.7	0.9	1.2	2.7	0.7
EPA limit	4.0	4.0	4.0	4.0	4.0	4.0

ND = no data. Sample bottles broken in transit to laboratory.
October sample for Location D5 affected by insect contamination.

For monitoring locations, refer to Figure 2 "Air Quality Monitoring Sites"

Duralie Mine - Rain Received

MONTH	2010	2009	2008	2007	2006	2005	2004	2003	AVERAGE**
JAN	95.6	28	156	33	65	88.8	145.4	13.5	115.3
FEB	75.4	267	188.1	100.8	118	109.8	145.6	104	126.3
MAR		129	53.4	122.4	42.6	248.4	156.4	68	145.3
APR		139	315.4	79.2	70.8	25.8	16.4	122.2	101.9
MAY		97	25	44.2	34.6	80	25.4	198.2	91
JUN		81.2	77.2	224.2	32.6	151	12.8	11.4	99.2
JUL		38.6	40.8	31.4	77.8	28.6	42.8	28.8	74.5
AUG		2.4	32.8	111	67.2	2	79.1	47.4	65.3
SEP		7.8	108	30	126.2	53	58.4	0	62.6
OCT		106	54.2	22.6	16.8	97.2	163.1	56.2	77.8
NOV		104.2	98.6	172.6	165.2	131.8	47.4	127.2	82.9
DEC		157.4	56.4	120.6	82.4	26.6	149.4	38.4	103
TOTAL		1157.6	1205.9	1092	899.2	1043	1042.2	815.3	1145.1

** Stroud (1889 to 2002) & Duralie Mine Site (2003 to 2009) data

