

Minutes of Rocglen Coal Mine

Community Consultative Committee – Meeting #31

Meeting Held: Wednesday 21st March 2018

Venue: Rocglen Coal Mine Training Room

Commencement Time: 3:00pm

1. Present and Apologies

Present: Mr John Sturgess (JS) – Independent Chairperson
Mrs Pam Burns (PB) – Community Representative
Mrs Maddie Whitten (MW) – Environmental Officer
Mr Jason Conomos (JC) – Operations Manager
Mr Rod Barnes (RB) – Community Representative
Mr Tim Muldoon (TM) – Group Manager Community Relations & Property
Miss Emily Clements (EC) – Environmental Graduate (observer)

Apologies: Colleen Fuller (CF) – GSC Representative

2. Minute Taking Requirements

MW proposes EC will take minutes throughout the meeting. Endorsed by JS and seconded by PB. MW states due to requirements for CCC meetings regarding number of representatives, EC will not be participating in meeting.

3. Previous Minutes

Minutes accepted as true record of the motion by MW and seconded by PB.

4. Business Arising from Previous Minutes

N/A

5. Mine Progress Report

JC provided an update on production since the last meeting (covering the period from August 2017 to the end of February 2018).

- 490,801 tonnes coal
- 2,571,601 BCM overburden
- 5.24 strip ratio

1889 days since the last LTI. TM asks confirmation that 0 had occurred at Rocglen. JC confirmed, all agreeing this was a good achievement.

6. Review of Environmental Performance

MW acknowledges that due to postponement of last scheduled meeting, results provided to the committee members are for the period of August 2017 to the end of February 2018.

- Two exceedances of quarterly monitoring, both recorded close to midnight. All daily results have been compliant. Noted that both occurred at 'Surrey' (of which RB was made aware), and additional monitoring was undertaken demonstrating a return to compliance. Also mentioned that attended monitoring was just undertaken again and showed compliance.
- 318 blasts undertaken to date at the time of reporting, with no exceedances of the blasting criteria since the previous CCC meeting;
- Deposited dust long term average tracking well;
- PM10 consistent with previous year's data;
- Ground water levels remain relatively stable, some variance in Surface Water Level is due to stock bores;
- Some fluctuation in surface dam Total Suspended Solids (TSS) but usually as a result of the dams being almost empty;
- A spike in Electrical Conductivity in SB19 noted in previous CCC meeting has now returned to normal;
- No complaints have been recorded since the last CCC meeting;
- 52ha of planting was undertaken on the Northern Rehabilitation area but due to dry weather has not been very successful;
- In-fill planting to be undertaken in winter;
- No further rehabilitation planned.

Note: RB arrived at 3:10pm.

7. General Business

MW said that since the last meeting, night shift was stopped, however JC stated that it will return soon.

RB mentioned that dirt still up against the boundary fence between his property and the biobank site. MW noted she had spoken to Andrew about this since the last meeting. TM going to follow up with Andrew and also provided RB with Andrew's number again so that he could get in contact with him to discuss. RB concerned that the fence will rust and will eventually need replacing.

8. Next Meeting

MW proposed a meeting 6 months from original meeting date, which will fall in mid-August. All agreed. Date to be determined following consultation with council representative.

9. Meeting End: 3:15pm

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Environmental Monitoring Report August 2017 – February 2018

Noise Monitoring

Attended noise monitoring was undertaken between 15th and 17th August 2017, and between 13th and 16th November 2017, in accordance with the Rocglen Noise Monitoring Program and Environment Protection Licence Guidelines (90 minutes during the day, 30 minutes during the evening and 60 minutes during the night and occur for 3 consecutive operating days). Results are outlined below:

Retreat	14/08/2017	16:27	90	IA			35 dB(A) Leq (15 min) Day, Evening, Night 45dB(A) LA (1 min) Night	0.6	Y
		21:31	30		<20			0.2	Y
		22:01	60			<20		0.4	Y
		22:01	60			<20		0.4	Y
	15/08/2017	11:52	90	IA				1.8	Y
		20:28	30		IA			4.9	NA
		22:00	60			IA		5	NA
		22:00	60					5	NA
	16/08/17 - 17/08/17	13:56	90	IA				NA	Y
		20:09	30		<20			2.8	Y
		22:00	60			IA		2.1	Y
		22:00	60					2.1	Y
Surrey	14/08/2017	14:40	90	IA			1.1	Y	
		20:31	30		39		0.2	N	
		23:18	60			30	0	Y	
		23:18	60				NM	0.3	Y
	15/08/17 – 16/08/17	13:48	90	29			0.9	Y	
		19:39	30		<30		4.5	NA	
		23:18	60			35	2.5	N	
		23:18	60				45	2.5	Y
	16/08/17 - 17/08/16	12:04	90	15			4.6	NA	
		19:19	30		23		1.7	Y	
		23:15	60			23	1.2	Y	
		23:15	60				27	1.7	Y
Retreat	13/11/2017	16:27	90	NM			3	Y	
		18:00	30		NM		1.9	Y	
		22:00	60			IA	4.2	NA	
		22:00	60				IA	4.2	NA
	14/11/2017	12:39	90	NM			1.3	Y	
		20:46	30		IA		3.5	NA	
		22:00	60			IA	2.4	Y	
		22:00	60				IA	2.4	Y

	15/11/2017	12:31	90	IA				2.9	Y	
		21:08	30		IA			2.5	Y	
		22:00	60			<25		2.3	Y	
		22:00	60				<25	2.3	Y	
Surrey	13/11/2017	14:40	90	<20				35 dB(A) Leq (15 min) Day, Evening, Night	1.6	Y
		18:55	30		IA				4.1	NA
		23:23	60			<30			3	Y
		23:23	60				30		3	Y
	14/11/2017	14:27	90	NM				45dB(A) LA (1 min) Night	0.7	Y
		19:55	30		IA				3.8	NA
		23:21	60				NM		2.4	Y
		23:21	60				NM		2.4	Y
	15/11/17- 16/11/17	14:24	90	IA					1.2	Y
		20:22	30			<25			1.2	Y
		23:25	60				<25		2.4	Y
		23:25	60				<25		2.4	Y

The results show that, under the operating and meteorological conditions at the time of monitoring two exceedances, one of 4dB(A) and one of 5dB(A), occurred during the night time monitoring periods at the Surrey residence. All exceedances include an application of a 5dB low frequency noise modifying factor. Following some operational changes on site the November monitoring returned compliant noise levels for both sites.

In addition to operational noise, the noise from the mine must not exceed 45 dB(A) L1 (1 min) between the hours of 10 pm and 7 am. This is to minimise the potential for sleep disturbance as a result of individual loud noises from the mine. During the night time monitoring during the period the L1 (1 min) noise from the mine did not exceed 45 dB(A) at either monitoring location.

Rocglen's real time noise monitor is currently located at the "Penryn" property. The monitor's alarm system notifies operations when noise levels approach compliance limits and allows for the opportunity to adjust operations accordingly.

Blast Monitoring

Since the first blast there have been 318 blasts (until the end of February 2018). None of the blasts since the previous CCC meeting have exceeded the 95th percentile blast criterion set for the site.

Air Quality

Deposited Dust Results

The deposited dust results (g/m²/month) obtained for the site over the last 12 months are as follows:

Deposited Dust Monitoring Data Summary 2017

Site	EPL ID no.	Property Name	Annual Mean Total Insoluble Solids (g/m ² /month)	Annual Mean Ash (g/m ² /month)	Long term Insoluble Solids Average (g/m ² /month)
BD 3		Belah	2.0	1.4	1.3
BD4	4	Surrey	1.0	0.6	1.0
BD5		Stratford	2.3	0.6	1.2
BD6	6	Roseberry	1.1	0.5	1.2
BD7	7	Roseglass	2.4	0.4	1.1
BD8		Yarrowonga	3.6	1.2	1.4
BD2-A		Penryn	2.0	0.9	2.8

The annual average at all sites remains well below the concentration threshold of 4g/m²/month.

PM₁₀ Results

The annual averages for PM₁₀ levels up until the end of January 2018 remain below the annual average limit of 30µg/m³, as follows:

Costa Vale: 16.16µg/m³

Roseberry: 12.21µg/m³

The real time PM₁₀ monitor at Roseberry is currently operating to send alarms to operations in the event that PM₁₀ levels approach compliance limits.

Water Monitoring

Ground Water

Groundwater monitoring data for this CCC period is presented in the following table. Standing Water Level (SWL) graphs of bores with sufficient data sets are also provided.

Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
MP2	21/Mar/17	12.06	7	5030
	18/Sep/17	12.7	6.9	5080
	7/Dec/17	12.85	6.8	5140
MP2a	21/Mar/17	12.64	7.1	3190
	18/Sep/17	12.5	7	3280
	7/Dec/17	12.7	7	3270
MP3	21/Mar/17	Dry	Insufficient water to sample	
	18/Sep/17	Dry	Insufficient water to sample	
	7/Dec/17	Dry	Insufficient water to sample	

Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
MP3a	21/Mar/17	22.82	7.8	1315
	14/Sep/17	22.2	7.7	1340
	7/Dec/17	22.11	7.7	1330
MP4	21/Mar/17	Dry	Insufficient water to sample	
	14/Sep/17	Dry	Insufficient water to sample	
	7/Dec/17	Dry	Insufficient water to sample	
MP4a	21/Mar/17	29.97	7.5	3960
	14/Sep/17	29.9	7.7	3970
	7/Dec/17	30.01	7.6	4040
MP4b	21/Mar/17	26.67	7.9	3020
	14/Sep/17	26.6	7.9	3010
	7/Dec/17	26.65	7.9	3060
MP5	21/Mar/17	Dry	Insufficient water to sample	
	14/Sep/17	Dry	Insufficient water to sample	
	7/Dec/17	Dry	Insufficient water to sample	
MP5a	21/Mar/17	Dry	Insufficient water to sample	
	14/Sep/17	Dry	Insufficient water to sample	
	7/Dec/17	Dry	Insufficient water to sample	
MP6	21/Mar/17	8.89	7.7	1905
	14/Sep/17	8.88	7.6	1880
	7/Dec/17	8.82	7.6	1849
MP7	21/Mar/17	16.67	7	3090
	14/Sep/17	16.30	7.1	3100
	8/Dec/17	16.35	7	3090
MP8	22/Mar/17	16.90	7	4310
	14/Sep/17	16.40	7	4480
	8/Dec/17	16.58	6.9	4440
WB1	21/Mar/17	7.92	Windmill over bore	
	7/Dec/17	7.8	Windmill over bore	
WB2	22/Mar/17	15.89	7.7	3100
	18/Sep/17	15.82	7.7	2920
	7/Dec/17	15.9	7.8	2800
WB3	22/Mar/17	8.34	Pump over bore	
	8/Dec/17	8.56	Pump over bore	
WB4	21/Mar/17	Pump over bore		
	7/Dec/17	Pump over bore		
WB5	22/Mar/17	12.19	7.9	7130
	18/Sep/17	10.9	7.7	7390
	7/Dec/17	11.06	7.7	7360

Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
WB6	22/Mar/17	22.17	Windmill over bore	
	7/Dec/17	22.51	Windmill over bore	
WB7	22/Mar/17	11.78	Windmill over bore	
	7/Dec/17	13.16	Windmill over bore	
WB8	22/Mar/17	28.52	Pump over bore	
	8/Dec/17	29.07	Pump over bore	
WB9	22/Mar/17	Windmill over bore		
	8/Dec/17	Windmill over bore		
WB10	21/Mar/17	13.97	7	1959
	14/Sep/17	14	6.9	2090
	8/Dec/17	14.03	6.9	2070
WB11	21/Mar/17	18.35	7.5	990
	14/Sep/17	18.6	7.3	997
	8/Dec/17	20.15	7.3	984
WB12	21/Mar/17	13.41	9.2	1373
	14/Sep/17	13.3	9.1	1520
	8/Dec/17	13.31	8.3	1823
WB13	22/Mar/17	38.45	7	3560
	14/Sep/17	38.8	7	3600
	8/Dec/17	31.6	7	3480
WB-14	22/Mar/17	13.27	7.6	1324
	14/Sep/17	14.8	7.6	1350
	8/Dec/17	15.28	7.6	1321
WB-15	21/Mar/17	27.56	8.1	
	14/Sep/17	32	7	1460
	8/Dec/17	29.47	7.3	1445
Production Bore	22/Mar/17	Pump over bore	7.3	3610
	18/Sep/17	Pump over bore	7	3640
	7/Dec/17	Pump over bore	7.1	3530
Surrey No.2	22/Mar/17	32.69	7.4	3280
	14/Sep/17	32	7.4	3370
	8/Dec/17	31.93	7.2	3310

Standing water level trends have remained relatively consistent since the last CCC meeting. Standing water level graphs are available at the end of the report.

Surface Water

Overall, surface water samples taken throughout the reporting period indicate relative consistency across all monitoring parameters, with the exception of Total Suspended Solids (TSS)

which continues to show fluctuations for all sites due to fluctuating water levels. SB19, which had shown a spike in Electrical Conductivity early in 2017, returned to normal levels during the second half of the year.

Complaints

There have been no complaints received since the previous CCC meeting.

Rehabilitation

Rehabilitation work undertaken since the previous CCC meeting included the spreading of gypsum and native seed, re-mounding of the area, and planting of native tube stock. Unfortunately due to the hot and dry conditions of the previous 6 months the success rate of tube stock has been low. Infill planting is planned to be undertaken during winter 2018, pending rainfall.