Duralie Coal CCC Meeting

Presentation – Company Report & Overview of Activities

August 2017

Michael Plain Environment & Community Superintendent



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1. Progress at the Mine

Mining 1st Quarter 2017

- Overburden mined
 937,000 BCM
- ROM Coal mined 214,000 tonnes
- Mining in Clareval & Weismantel continued.



2. Environmental Reporting & Regulators

Management Area	Project	Status
Reporting	 DCM Annual Review 2017 National Pollutant Inventory & National Greenhouse Emissions Reporting 	 The Annual Review for 2016/17 is currently being prepared and is due for submission by 31 September 2017. Copies of the Annual Review will be provided to the CCC members and made available on the Duralie Coal website. The annual NPI and NGER reports for the 2016/17 FY are currently being prepared.
Regulator	 EPA site visit. Mine Closure Planning and MOP Amendment 	 A site visit was undertaken on 10-May-2017 following appointment of a new EPA compliance officer. DCPL personnel met with the Division of Resources and Environment (DRE) during May 2017 to discuss mine closure planning schedules for the Duralie Coal Mine. DRE have issued a notice to DCPL to prepare an amendment to the Mining Operations Plan to include a schedule for mine closure planning. This is a standard requirement 3-5 years prior to completing mining operations.
4 2 August 2017	DURALIE COAL MINE Mining Operations Plan December 2015	DURALIECOAL Part of the Yancoal Australia Group

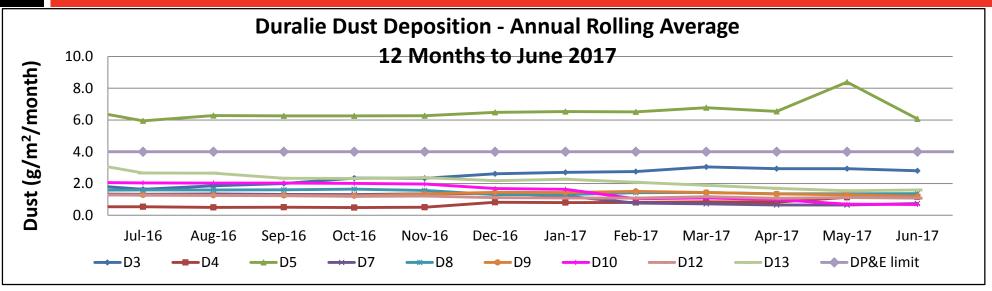
3. Environmental Management Plans & Monitoring



- b) Blast Management
- c) Noise Management
- d) Water Management
- e) Rehabilitation Management
- f) Biodiversity Management



3a. Air Quality Management



Nov-16 D5 – 9.5 Very heavy - 40% Dirt, 0% Coal, 10% Vegetation, 0% Insects and 50% Polysaccharide slime.

Dec-16 D8 – 5.7 Medium - 40% dirt, 0% coal, 20% vegetation, 10% insects, 30% polysaccharide slime.

Mar-17 D3 – 4.1 Medium - 10% dirt, 0% coal, 10% vegetation, 30% insects and 50% polysaccharide slime.

D5 – 6.7 Heavy - 20% dirt, 0% coal, 10% vegetation, 10% insects, 60% polysaccharide slime.

Jun-17 D4 – 4.1 Medium - 20% Dirt, 10% Coal, 0% Vegetation, 0% Insects, 70% Polysaccharide slime.

D5 – 25.2 Heavy - 70% dirt, 0% coal, 0% vegetation, 0% insects, 30% polysaccharide slime.

Jul-17 D3 – 4.9 Heavy - 30% dirt, 0% coal, 0% vegetation, 20% insects, 50% polysaccharide slime.

D5 – 12.8 Heavy - 80% dirt, 0% coal, 0% vegetation, 0% insects, 20% polysaccharide slime.

Guide to Descriptions used by Laboratory

Coal: Black sharp angled grains with glossy conchoidal fractures or dull with cellular features.

Dirt/Minerals: Subhedral to euhedral crystalline grains including fine sand, clay and other fine mineral particulates.

Insects: Whole insects such as spiders, ants, moths or outer parts of insects including wings, legs and exoskeletons.

Vegetation: Plant debris and algae including trichomes, decomposed organic matter and charred particulates showing characteristic cellular plant structures.

Polysaccharide Slime: Slimy gelatinous material including decomposed soft body parts of insects and vegetation.

Copper Sludge: Blue-green subhedral to euhedral crystalline salts, commonly precipitated from the copper sulphate algaecide solution.

Contamination: Gelatinous material such as bird droppings

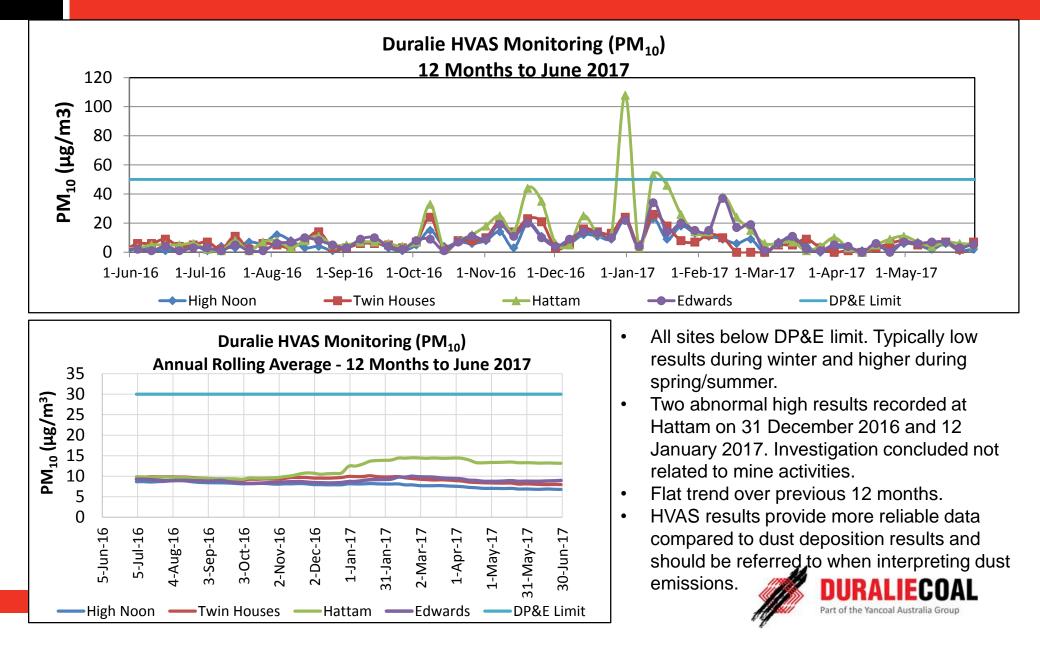
• High levels in D5 due to contamination of multiple samples.

Due to frequent contamination of dust gauges the HVAS results should also be used when interpreting results.





3a. Air Quality Management



3b. Blast Management

Management Area	Project		Sta	Status									
Blasting	Blast monitoring		1	reporting period (ending 4-Sep-2017).							for the		
Location	Date	Time	Schultz	(AB1)	Fisher-V (AAA		Moylan	(AAAB4)	Weismantel Inn	Overpressure Site Exceedence ¹	Overpressure "Cumulative Exceedence" ¹	Monitored Blasts ¹	Fume Rating
		24hr	mm/s	dBL	mm/s	dBL	mm/s	dBL	mm/s	%			
Clareval Block 7	05-Apr-17		<0.22	<110.0	<0.22	<110.0	<0.22	<110.0	0.63	3.1%	1	32	Nil
Weismantel Strip 16	13-Apr-17		<0.22	<110.0	0.49	106.2	0.26	106.0	0.86	3.0%	1	33	3A
Clareval Block 7	20-Apr-17		<0.22	<110.0	<0.22	<110.0	<0.22	<110.0	<0.22	2.9%	1	34	Nil
Weismantel Strip 16	24-Apr-17		<0.22	<110.0	<0.22	<110.0	<0.22	<110.0	<0.22	2.9%	1	35	Nil
Weismantel Strip 16	02-May-17		<0.22	<110.0	0.33	103.3	0.24	106.8	0.57	2.8%	1	36	Nil
Clareval Block 7	05-May-17		<0.22	<110.0	<0.22	<110.0	<0.22	<110.0	0.41	2.7%	1	37	Nil
Clareval Block 7	12-May-17		<0.22	<110.0	<0.22	<110.0	0.31	100.5	0.9	2.6%	1	38	Nil
Weismantel Strip 16	18-May-17		<0.22	<110.0	<0.22	<110.0	<0.22	<110.0	<0.22	2.6%	1	39	Nil
Weismantel Strip 16	24-May-17		<0.22	<110.0	0.33	98.6	<0.22	<110.0	0.61	2.5%	1	40	Nil
Clareval Block 7	01-Jun-17		<0.22	<110.0	0.33	102.1	0.47	97.5	0.89	2.4%	1	41	Nil
Clareval Block 7	07-Jun-17		<0.22	<110.0	<0.22	<110.0	<0.22	<110.0	0.49	2.4%	1	42	Nil
Clareval Block 7	09-Jun-17		<0.22	<110.0	<0.22	<110.0	0.38	103.5	0.8	2.3%	1	43	Nil
Clareval Block 7	16-Jun-17		<0.22	<110.0	<0.22	<110.0	0.41	109.9	0.65	2.3%	1	44	Nil
Clareval Block 7	23-Jun-17		<0.22	<110.0	<0.22	<110.0	0.25	98.9	0.56	2.2%	1	45	Nil
Clareval Block 7	07-Jul-17		<0.22	<110.0	<0.22	<110.0	0.52	107.8	1.05	2.2%	1	46	Nil
Clareval Block 7	12-Jul-17		<0.22	<110.0	<0.22	<110.0	0.27	100.0	0.45	2.1%	1	47	Nil
Clareval Block 7	14-Jul-17		<0.22	<110.0	<0.22	<110.0	<0.22	<110.0	0.48	2.1%		48	Nil
Clareval Block 7	19-Jul-17		<0.22	<110.0	<0.22	<110.0	0.51	100.0	0.94	2.0%	1	49	Nil
Clareval Block 7	20-Jul-17		<0.22	<110.0	<0.22	<110.0	<0.22	<110.0	0.34	2.0%		50	Nil
Clareval Block 7	24-Jul-17	11:36:00	<0.22	<110.0	<0.22	<110.0	<0.22	<110.0	0.37	2.0%	1	51	Nil

• Note: Blast Compliance: No more than 5% of total blasts for annual monitoring period to exceed an overpressure of 115 dBL or ground vibration of 5 mm/s. No blast is to exceed an overpressure of 120 dBL or ground vibration of 10 mm/s.

• Note: Where no trigger is recorded the results indicate <0.22mm/s and <110.0dBL corresponding to the blast monitor settings.



3c. Noise Management

Management Area	Project	Status
Noise	Routine Monitoring	 Routine quarterly monitoring of operations and train noise was undertaken in July 2017. Noise monitoring results have remained below the noise criteria. Typically the operations have been inaudible or slightly audible during the monitoring. Noise reports are made available on the Duralie Coal website.
	Real-Time Noise Management	 Real-time noise monitoring profiles continue to be monitored and generally indicate no exceedence of the performance criteria due to mining operations. Occasional noise alarms were received during the quarter and were due meteorological conditions or external noise sources. Operations are currently located in the Clareval pit.

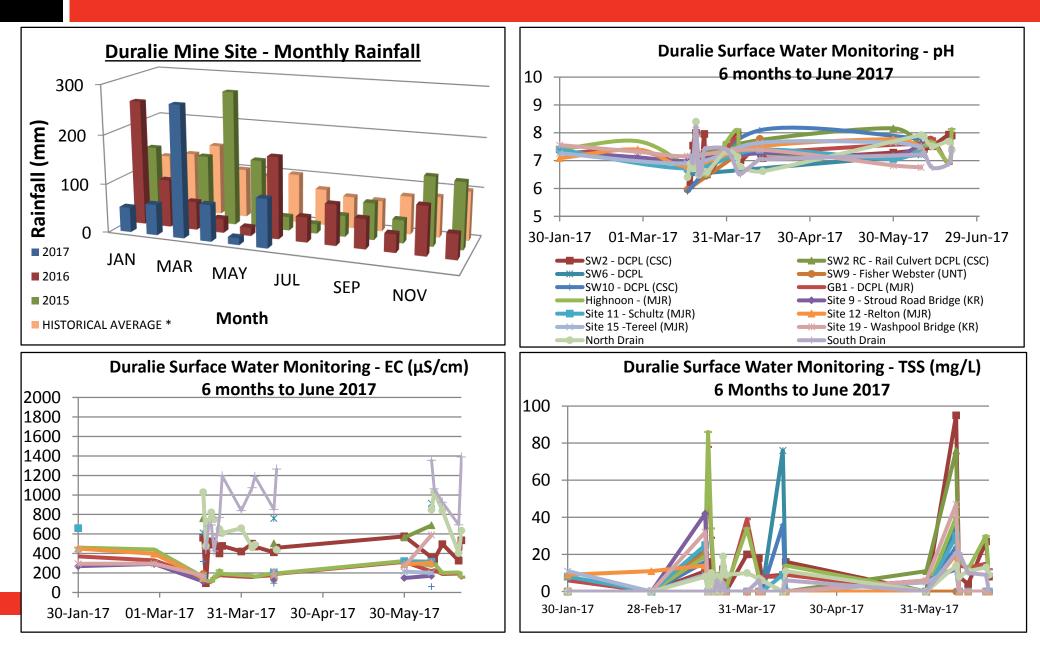


3d. Water Management

Management Area	Project	Status
Site Water Management	Annual water balance review.	 A annual site water balance review has been completed for the 2016 calendar year. A summary will be included in the Annual Review.
Surface Water	Routine monitoringIrrigation	 Sporadic rainfall conditions through Autumn-Winter 2017. Routine surface water monitoring completed. All sites generally within DEP water quality performance indicators. No obvious trending towards performance indicators. Duralie Coal Mine Irrigation Area Monitoring Report 2017 completed in May 2017. The report will be included in the Annual Review 2017. The results indicate <i>"no detectable adverse impact from irrigation management on pasture cover or composition".</i>
Groundwater	Routine monitor	 Routine monitoring has been completed and the results continue to indicate consistency with the model trends in the Environmental Assessment.



3d. Water Management



3e. Rehabilitation Management

Management Area	Project	Status
Waste emplacements	 Annual Rehabilitation Monitoring 	 Annual monitoring of the rehabilitation areas was undertaken during June 2017. A summary of the results will be included in the Annual Review 2017. The monitoring includes Landscape Function Analysis, vegetation dynamics and observational recordings. The monitoring continues to indicate good development of the native rehabilitation with increasing diversity and structure.



Photo: Rehabilitation maintenance – Apr 2017



Photo: New growth on western slopes -Apr 2017



3f. Biodiversity Management

Management Area	Project	Status
Biodiversity Offset	Revegetation works	 Preparation for the biodiversity offset revegetation works to be undertaken in Spring 2017 and Autumn 2018 has commenced. Tube-stock planting of approximately 50 hectares of alluvial flats along Johnsons Creek Rd was completed during May 2017. Approximately 7000 natives trees and shrubs were planted.
	Nest box program	• Quarterly monitoring of the nest boxes in the offset areas was undertaken during June 2017.
	 Annual Biodiversity Report 	• An annual report on biodiversity management at Duralie Coal Mine has been prepared and will be included as an appendix to the Annual Review 2017.



Photo: Tube-stock planting in biodiversity offset along Johnsons Creek Road.







3f. Biodiversity Management

Management Area	Project	Status
Bushfire Management	Bushfire Management	 Bushfire hazard reduction has been undertaken through slashing of areas along Johnsons creek road, In the biodiversity offset area and surrounding the Duralie Mining lease. RFS will be engaged for hazard reduction burning during 2017.
Flora/Fauna	Weed Control	• Weeds spraying has ceased during winter and will recommence in spring 2017.
	 Feral Animal Monitoring 	• A feral animal monitoring program was undertaken during April 2017 across the Stratford and Duralie Mining Leases and surrounding properties. The results of the monitoring will be included in the Annual Review 2017.
	 Wild Dog Control Program 2017 	 A wild dog control program was undertaken during in April 2017. The program included trapping and shooting of wild dogs and foxes on the Stratford and Duralie Mining Leases and the biodiversity offset areas. A total of 17 dogs and foxes were captured.



4. Community Complaints

Duralie Complaint Summary

Period: 1/4/2017 - 30/06/2017

Period: 3 Months

Total No. of Complaints: 3 (2 noise, 1 blast, 0 air quality, 0 other)

Total No. of Complainants: 2

Date/Time of Complaint	Complainant Location	Method of Complaint	Nature of Complaint	Investigation/Outcome
28/04/2017 22:30hrs	Wards River Village	Community Hotline	Mine Noise	 Complaint: Noise complaint. DCPL called the complainant at 9:30am on 1/5/2017. The complainant stated the mine noise had been bad for a few weeks and was particularly loud on Friday night. DCPL representative advised the operations ceased at 11pm and no operations occur on weekends. One digger and truck fleet is currently working in the north end of Weismantel. Quarterly noise monitoring in Wards River has continued and was undertaken during the week. The operations were not audible during the monitoring. The real-time noise monitoring profiles indicate no elevated noise levels over the previous nights. The complainant indicated noise was still an issue for many residents however they have stopped complaining as nothing was being done. DCPL advised they would encourage any concerned residents to continue notifying DCPL so they could continue to engage with neighbours and improve performance.
9/05/2017 22:30hr	sWards River Village	EPA hotline	Mine Noise	 Complaint: Received by EPA - Excessive noise from truck movement at Duralie Coal Mine Bucketts Way, Stroud. Caller advised noise ongoing all day. Started getting excessive approx. 30 minutes ago. The EPA requested information from DCPL regarding the complaint. DCPL provided information to the EPA including real-time noise monitoring results, operations, actions undertaken. Real-time noise levels were below the investigation levels during this period. No further action requested.
28/06/2017 13:30hrs	Wards River Village	EPA hotline	Blasting - noise /vibration	 Received from the EPA, Stated: Huge blast from either Stratford Coal or the Duralie Mine. Noise was like a bomb blast and it shook the ground. It was like an explosion that echoed all around the valley. An email response was provided to the EPA. Confirmed there had been no blasting at neither Duralie nor Stratford. The noise had not been heard at the mine site and there were no other events which could explain the explosion (Confirmed with OCE) No further information at this time. Four other enquiries were responded to regarding to same event in Wards River. No further action.



5. Community Programs

Management Area	Project	Status
Support Programs	Stratford Coal Community Support Program 2017	 The Stratford Coal Community Support Program was finalised during May 2017 and all applications were reviewed by the committee. A presentation night was held on 17 May 2017 at the Stroud Country Club and funding was present to the successful recipients. In 2017 over \$63,000 has been shared between 20 local community organisations.





Photo: Stratford Coal Community Support Program Presentation Night at the Stroud Country Club - May 2017.



5. Community Programs

Community Support Program Recipients	Project Name
Stroud Show Association Inc.	Stroud Show -2017
Gloucester Thunderbolts Swimming Club Inc.	Annual Picnic Carnival
Clontarf Foundation - Chatham Academy	Academy facilities: Air conditioning, blinds, printer and enclosed trailer.
Gloucester Country Club	Stratford Coal Super Sevens - Golf Competition
Rotary Club of Gloucester	Gloucester Outdoor Fitness Trail - Inclusion of Wheelchair exercise station
Stroud Community Lodge	Stroud Community Services – Home Care
Gloucester Chamber of Commerce	Chill Out Festival 2017
MidCoast Science and Engineering Challenge	MidCoast Science and Engineering Challenge and Discovery Day 2017
Worimi First People Aboriginal Corporation	NAIDOC Day 2017
Gloucester Mountain Man Triathlon Inc.	Gloucester Mountain Man Tri Challenge
Stroud & District Men's Shed Inc	Air conditioning & Structural Changes for disability access
Gloucester High School P & C Ass. Inc.	Concrete Wash Bay for Cattle, Ag Farm.
Gloucester Working Dog Club Inc.	Gloucester Dogs, Boots & Bulls 2017
Stroud Road Community Hall & Progress Assoc.	Stroud Road Spring "Bash 'n Bang" 2017
Gloucester Little Athletics Centre	Long Jump Overhaul
Stroud & District Historical Society Assoc.	Karuah Valley Heritage brochure and app.
Wildlife In Need Of Care	Support for orphaned wildlife: Humidicrib.
Gloucester Public School P & C Assoc.	MiniLit Literacy Program
Stroud Rodeo Association	2017 Stroud Rodeo and Campdraft
Bucketts Way Neighbourhood Group Inc	Domestic violence program



5. Community Programs

Management Area	Project	Status
Community Engagement	 Chatham Clontarf Academy Midcoast Science & Engineering Challenge Stroud Community Lodge Home - Support services Gloucester Activity Centre – Men's Group 	 DCPL attended the official opening of the Chatham Clontarf Academy in Taree during June 2017. DCPL staff attended the Midcoast Science and Engineering Challenge during May 2017 and assisted in running activity for the high school students. The Stroud Community Lodge held a morning tea for the launch of the Home Care Services program in July 2017. The program is partially fund by Stratford Coal. On 10 July 2017 the Gloucester Activity Centre Men's Group visited the Duralie Mine Site for a tour of the operations.



Photo: Science and Engineering Challenge 2 August 2017 – Gloucester Students.



Photo: Chatham Clontarf Academy – Official Opening.

