

Monthly Website Report

Site:	Chain Valley Colliery
Department:	Technical Services
Report Title:	Monthly Environmental Website Report - March 2019
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Introduction

Great Southern Energy Pty Ltd (Delta Coal) operates the Chain Valley Colliery, an underground coal mine at the southern end of Lake Macquarie.

Chain Valley Colliery operates under the following regulatory instruments;

- A Development Consent, SSD-5465 (as modified) issued under the Environmental Planning and Assessment Act, 1979.
- An Environment Protection Licence (1770) issued under the Protection of the Environment Operations Act, 1997.
- A groundwater bore licence (20BL173107) issued under the Water Act, 1912.

The above development consent/approval and licences require various monitoring and reporting to be undertaken by Delta Coal for Chain Valley Colliery.

This report provides environmental monitoring data from Chain Valley Colliery for the period 1 March to 31 March 2019.

Details of the Chain Valley Colliery EPL 1770 are provided below.

Chain Valley Colliery Information	
Premises name	Chain Valley Colliery
Address	Construction Road, Chain Valley Bay, NSW, 2259
Licensee	Great Southern Energy Pty Ltd
EPL #	1770
EPL location	http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=50980&SYSUID=1&LICID=1770

The overall purpose of this report is to keep stakeholders informed of the environmental monitoring results at Chain Valley Colliery and maintain a transparent and accountable reporting system.

Scope

This report presents the results from the various environmental monitoring programs undertaken for Chain Valley Colliery.

Results in this report are typically only a single month of data, which is due to a legislative requirement introduced by the *Protection of the Environment Legislation Amendment Act 2011*, which requires publishing data publically within 14 days. As Delta Coal is required to undertake monitoring on a monthly basis, each report generally cover a single month of environmental monitoring data.

Where applicable, the results of the monitoring programs are compared with the relevant criteria (from the EPL or Development Consent) to determine compliance.

Monitoring results presented include;

- Water – quality
- Water – volume
- Depositional dust
- Operational noise
- Weather data

Definitions

dB– decibels

dB(A) – noise level measurement units are decibels (dB). The A-weighting scale is used to approximate human perception of noise

g/m²/month – grams per square metre per month

kL– kilolitres

L_{Aeq}–the average A-weighted noise energy (in dB) for a measurement period

mg/L – milligrams per litre

µg/L – micrograms per litre

µS/cm – microSiemens per centimetre

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References

ALS Group - Monthly Water Monitoring Results **March 2019**

ALS Water - Report of Analysis

Steel River Testing - Dust Deposition Report **March 2019**

Development Consent SSD-5465 (as modified)

Environment Protection Licence 1770 (Licence version date: 8 June 2016)

Monitoring Results

Water – Quality

March 2019			
EPL	1770		
Licensee	LakeCoal Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	12-Mar-19		
Date Obtained	12-Mar-19		
Date Reported	Refer report date		
Sampling Point	1		
Parameter	Units	Limit	Result
Biochem. Oxygen Demand	mg/L	-	<2
Enterococci	col/100mL	-	200
Faecal Coliforms	CFU/100mL	200	~7
pH	pH	6.5-8.5	7.59
Total Sus. Solids	mg/L	50	<5

There was no exceedance of water quality criteria during the month.

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Water – Volume

	March 2019	
EPL	1770	
Licensee	Delta Coal Pty Ltd	
Premises	Chain Valley Colliery	
Date Sampled	Daily	
Date Reported	Refer report date	
Discharge volume limit	12161 kilolitres per day	
Sampling Point	1	
Date (24 hour period)	Unit	Volume
01/03/2019	kL	6334
02/03/2019	kL	4940
03/03/2019	kL	4952
04/03/2019	kL	6226
05/03/2019	kL	6352
06/03/2019	kL	6145
07/03/2019	kL	5089
08/03/2019	kL	4388
09/03/2019	kL	5659
10/03/2019	kL	6424
11/03/2019	kL	6455
12/03/2019	kL	6519
13/03/2019	kL	6549
14/03/2019	kL	6566
15/03/2019	kL	6526
16/03/2019	kL	9696
17/03/2019	kL	9539
18/03/2019	kL	5438

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19/03/2019	kL	5129
20/03/2019	kL	5610
21/03/2019	kL	5580
22/03/2019	kL	5771
23/03/2019	kL	5270
24/02/2019	kL	6438
25/03/2019	kL	6354
26/03/2019	kL	6004
27/03/2019	kL	3827
28/03/2019	kL	3558
29/03/2019	kL	3059
30/03/2019	kL	7777
31/03/2019	kL	6453
Average	kL	5956
Minimum	kL	3059
Maximum	kL	9696

There were no exceedances of the volumetric limits at the Licenced Discharge Point during the month.

Depositional Dust

March 2019	
Sampling Date	8-Feb-19 to 11-Mar-19
Site	Insoluble Matter (g/m2/month)
DDG001	1 .1
DDG002	1. 1
DDG003	1 .4
DDG004	1. 8
DDG005	3. 8

There were no exceedances of the annual average air quality limits during the reporting period.

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Operational Noise

Operational noise monitoring undertaken in March and displayed compliance.

Weather Data

A summary of weather data recorded by an adjacent site meteorological monitoring station at the Colliery is presented below for the year to date.

Monthly Weather Data			
2019			
EPL	191		
Licensee	Delta Coal Pty Ltd		
Premises	Mannering Colliery		
Location	W1 (on-site weather station)		
Date published	Refer report date		
Date sampled	Daily		
Date obtained	09/04/2019		
Month	Total Rainfall/Month mm	Min Temp	Max Temp
Jan-19	60.6	18.6	39.6
Feb-19	88.6	22.7	37.4
Mar-19	204	10.1	37.1
	353.2	51.4	114.1