



Monthly Website Report

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

Great Southern Energy Pty Ltd (trading as 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 Water Access Licence 20AL217069 (WAL41508), Aquifer (4,443 megalitres)

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 July to 31 July 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 **July** 2019

ALS Water - Report of Analysis

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

Development Consent SSD-5465 (as modified)

Environment Protection Licence 1770 (Licence version date: 2 April 2019)

Monitoring Results

Water – Quality

July 2019	
EPL	1770
Licensee	LakeCoal Pty Ltd
Premises	Chain Valley Colliery
Date Sampled	June
Date Obtained	June
Date Reported	June
Sampling Point	1

Parameter	Units	Limit	Result
Biochem. Oxygen Demand	mg/L	-	<2
Enterococci	col/100mL	-	15
Faecal Coli forms	CFU/100mL	200	5
pH	pH	6.5-8.5	7.70
Total Sus. Solids	mg/L	50	5

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

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Water – Volume

July 2019	
EPL	1770
Licensee	LakeCoal 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
01/07/2019	kL	4345
02/07/2019	kL	5244
03/07/2019	kL	5425
04/07/2019	kL	4743
05/07/2019	kL	6831
06/07/2019	kL	6530
07/07/2019	kL	6513
08/07/2019	kL	6396
09/07/2019	kL	6411
10/07/2019	kL	6361
11/07/2019	kL	5839
12/07/2019	kL	6167
13/07/2019	kL	6314
14/07/2019	kL	6372
15/07/2019	kL	6341
16/07/2019	kL	6322
17/07/2019	kL	4263
18/07/2019	kL	4731
19/07/2019	kL	4466
20/07/2019	kL	3810
21/07/2019	kL	5311
22/07/2019	kL	6441
23/07/2019	kL	6197
24/07/2019	kL	6347
25/07/2019	kL	6287
26/07/2019	kL	5328
27/07/2019	kL	5783
28/07/2019	kL	6018
29/07/2019	kL	5312
30/07/2019	kL	6308
31/07/2019	kL	7243

Average	kL	5806
Minimum	kL	3810
Maximum	kL	7243

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

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Depositional Dust

July 2019			
EPL	1770		
Limit	4g/m ³ /month		
Samplin:	07/06/2019	to	08/07/2019
Site	Insoluble Matter (g/m ² /month)		
DDG001	0.3		
DDG002	0.4		
DDG003	0.6		
DDG004	0.3		
DDG005	2.7		
Notes:			

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

Operational Noise

Operational noise monitoring as part of the Noise Compliance Report undertaken in July and displayed compliance.

Weather Data

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

Monthly Weather Data			
2019			
EPL	191		
Licensee	LakeCoal Pty Ltd		
Premises	Mannering Colliery		
Location	W1 (on-site weather station)		
Date published	Refer report date		
Date sampled	Daily		
Date obtained			
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
Apr-19	73.2	8.3	32.8
May-19	11.0	3.9	26.3
Jun-19	158.8	3.9	25.0
Jul-19	47.2	4.0	23.3
Aug-19			
Sep-19			
Oct-19			
Nov-19			
Dec-19			