



Chain Valley Colliery Monthly Website Report – February 2026

Site:	Chain Valley Colliery
Department:	Health Safety and Environment
Report Title:	Monthly Environmental Website Report – February 2026
Report Date:	12 th March 2026
Distribution:	Delta Coal Website

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Summary

Environmental monitoring results are presented in this report for monitoring undertaken during the period of February 2026.

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:

- Section 66(6) of the *Protection of the Environmental Operations Act 1997*, to make monitoring data related to an Environment Protection Licence (EPL) publicly available;
- Development Consent SSD-5465 (as modified), issued under the *Environmental Planning and Assessment Act 1979* to provide details of monitoring results and environmental performance;
- An Environment Protection Licence (EPL 1770) issued under the *Protection of the Environment Operations Act 1997*; and
- A Water Access Licence (WAL41508), Aquifer (Sydney Basin – North Coast Groundwater Source) for 4,443 unit shares (megalitres).

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

This report provides environmental monitoring data from Chain Valley Colliery for the month of February 2026.

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	EPL 1770 – April 2025

The overall purpose of this monthly 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 are presented monthly with annual data and averages.

Where applicable, the results of the monitoring programs are compared with the relevant criteria (from the EPL or Development Consent) to assess compliance. Monitoring results presented in this report include:

- Water – quality;
- Water – volume;
- Air Quality – Depositional Dust
- Air Quality – PM₁₀
- Air Quality – PM_{2.5}; and
- Meteorological data.

Definitions

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

kL – kilolitre;

ML – megalitre;

mg/L – milligrams per litre;

TSS – total suspended solids;

µg/L – micrograms per litre; and

µS/cm – microSiemens per centimetre.

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References

ALS Group - Monthly Water Monitoring Results **February 2026**

ALS Group - Dust Deposition Report **February 2026**

Development Consent SSD-5465 (as modified)

Environment Protection Licence (EPL) 1770 (Licence version date: 9 April 2025)

Monitoring Results

Water – Quality

Water quality results for monthly surface water and Spillway event sampling at Chain Valley Colliery, Licensed Discharge Points (LDP1 and LDP27) are presented below.

LDP1 February 2026			
EPL	1770		
Licensee	Great Southern Energy Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	17-02-2026		
Date Obtained	24-02-2026		
Sampling Point	LDP 1		
Parameter	Units	Limit	Result
Biochem. Oxygen Demand	mg/L	-	<2
pH	pH	6.5-8.5	7.74
Total Sus. Solids (TSS)	mg/L	50	<5
Electrical Conductivity	µS/cm	-	29500

LDP27 February 2026			
EPL	1770		
Licensee	Great Southern Energy Pty Ltd		
Premises	Chain Valley Colliery		
Date Sampled	27-02-2026		
Date Obtained	5-03-2026		
Sampling Point	LDP 27		
Parameter	Units	Limit	Result
pH	pH	6.5-8.5	7.68
Total Sus. Solids (TSS)	mg/L	50	77
Electrical Conductivity	µS/cm	-	4820
Oil & Grease	mg/L	10	<5

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Water – Volume

Monthly water volumes discharged from the site are summarised below. There was no exceedance of volumetric discharge recorded at CVC for the monitoring period.

EPL	1770
Licensee	Great Southern Energy Pty Ltd
Premises	Chain Valley Colliery
Date Sampled	Daily
Date Reported	Refer report date
Discharge volume limit	12,161 kilolitres per day
Sampling Point	1 and 27

Date (24 hour period)	LDP 1 Volume (kL)	LDP 27 Volume (kL)	Total Discharged	Rainfall (mm)
1/02/2026	5753	0	5753	4
2/02/2026	6052	0	6052	2.4
3/02/2026	9559	0	9559	0.2
4/02/2026	5392	0	5392	0
5/02/2026	5938	0	5938	0
6/02/2026	8303	0	8303	2.6
7/02/2026	9381	0	9381	0
8/02/2026	6008	0	6008	0.6
9/02/2026	7496	0	7496	4.4
10/02/2026	4469	0	4469	0
11/02/2026	9559	0	9559	0
12/02/2026	5260	0	5260	4.4
13/02/2026	3466	0	3466	0.8
14/02/2026	9100	0	9100	2
15/02/2026	5951	0	5951	0.8
16/02/2026	9063	0	9063	1.4
17/02/2026	4769	0	4769	0
18/02/2026	5866	0	5866	0.8
19/02/2026	5454	0	5454	0.2
20/02/2026	9154	0	9154	0
21/02/2026	8933	0	8933	0.2
22/02/2026	3915	0	3915	0
23/02/2026	9437	0	9437	0
24/02/2026	5223	0	5223	0
25/02/2026	5767	0	5767	2.6
26/02/2026	6233	0	6233	13.6
27/02/2026	7886	162.59	8048	70.2
28/02/2026	8559	0	8559	2.8

Average	6855	6	6861	4
Minimum	3466	0	3466	0
Maximum	9559	163	9559	70

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Water – Groundwater Discharge

Groundwater discharged from underground workings to the CVC sedimentation ponds within the surface operational area has been detailed below. Chain Valley Colliery operates Water Access License (WAL 41508) permitting the extraction of 4,443 megalitres per water year (financial year calendar) with a roll-over entitlement up to a maximum of 8,886 megalitres.

CVC Groundwater to Surface Totals FY2025-2026		
Date (month)	GW Discharge (ML/Month)	GW Discharge (Cumulative ML YTD)
July 2025	215	215
August 2025	203	417
September 2025	223	640
October 2025	247	887
November 2025	240	1127
December 2025	241	1368
January 2026	216	158
February 2026	215	180

Air Quality - Depositional Dust

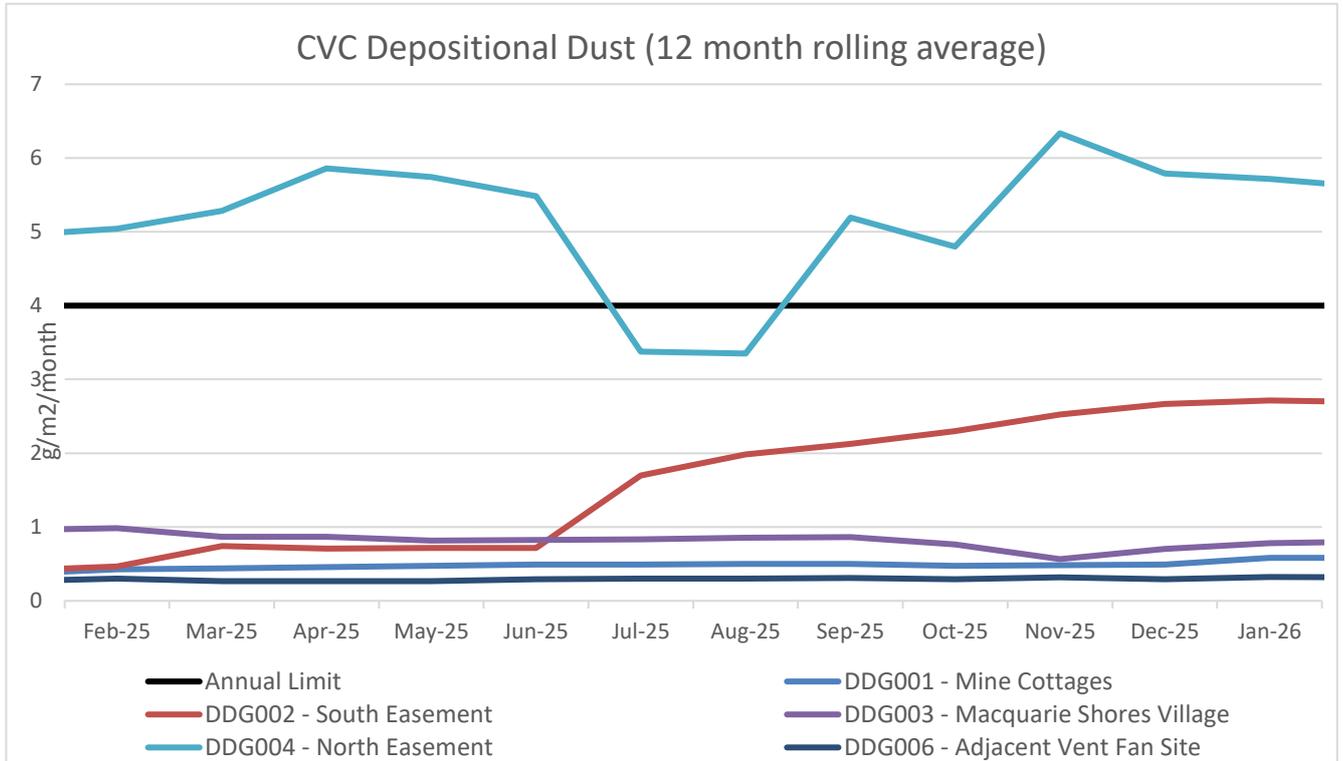
Monthly depositional dust results are shown below. Dust deposition gauges were sampled and analysed in accordance with Development Consent SSD-5465 (as modified), Delta Coal Air Quality and Greenhouse Gas Management Plan, and relevant Australian Standards.

February 2026	
EPL	1770
Limit	4g/m ² /month / Annum 2g/m ² /month increase from previous result
Sampling Date	6/01/2026 – 4/02/2026
Site	Insoluble Matter (g/m ² /month)
DDG001	0.9
DDG002	0.6
DDG003	1.0
DDG004	1.2
DDG006	0.4
Notes: For site locations refer to the Delta Coal Air Quality and Greenhouse Gas Management Plan.	

The 12 month rolling average results for DDG001, DDG002, DDG003 and DDG006 remain within the depositional dust limit of 4g/m²/month (annual average). The 12 month rolling average result for DDG004 was 5.6g/m²/month against the limit of 4g/m²/month.

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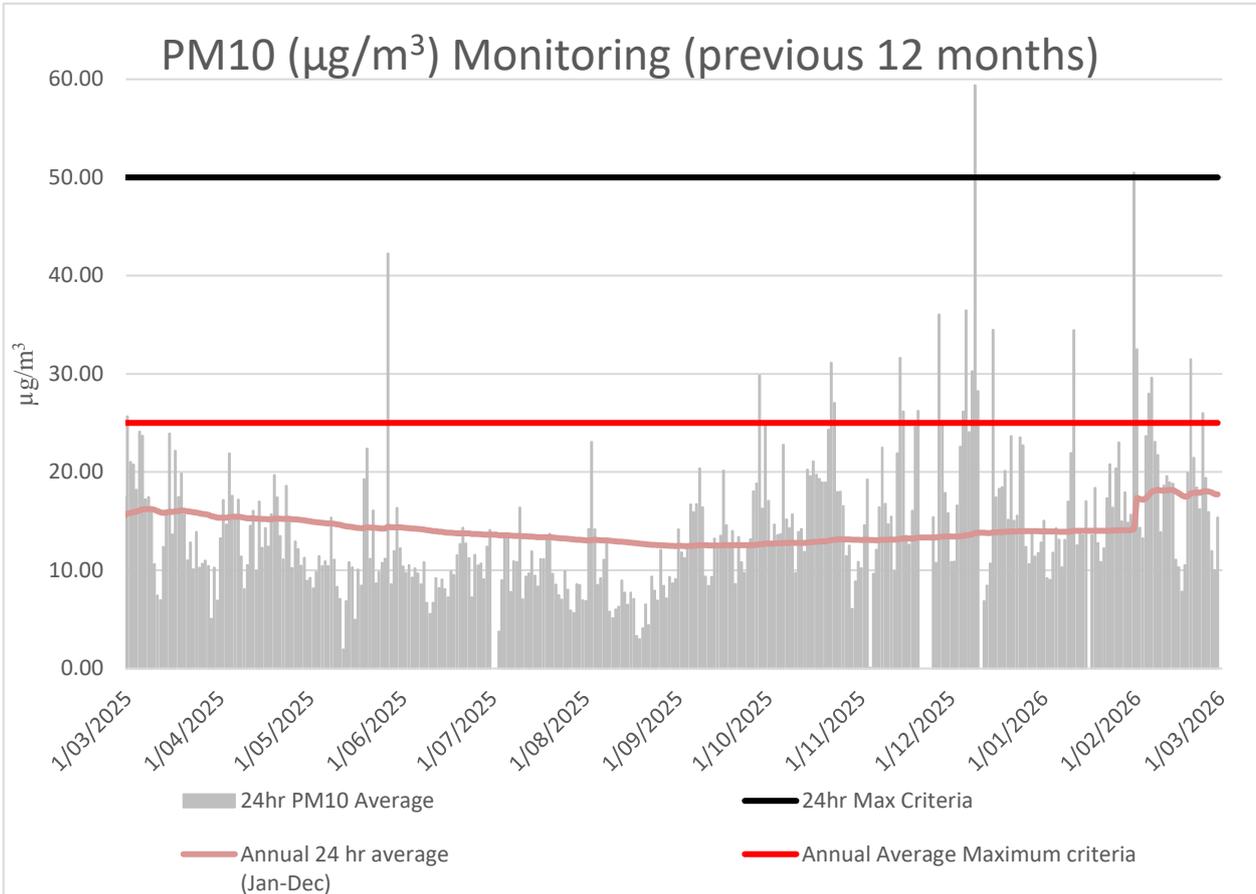
A 12-month rolling average of depositional dust concentrations has been presented above. Dust Gauges DDG001, DDG002, DDG003 and DDG004 are located within a closer proximity to Chain Valley Colliery and DDG006 is positioned in a location representative of the Chain Valley Colliery ventilation fan site at Summerland Point.

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Air Quality – PM₁₀

The 24hr PM₁₀ average from Delta Coal’s Tapered Element Oscillating Microbalance (TEOM), located at the Mannering Park Sewage Treatment Plant, is presented below for the previous 12 months.



Annual 24hr PM₁₀ average maximum criteria for February 2026 was below the annual average maximum criteria limit. A summary of data availability for Delta Coal’s TEOM is presented below for the reporting period. Delta Coals TEOM had a data availability of 98.1% for the month of February 2026.

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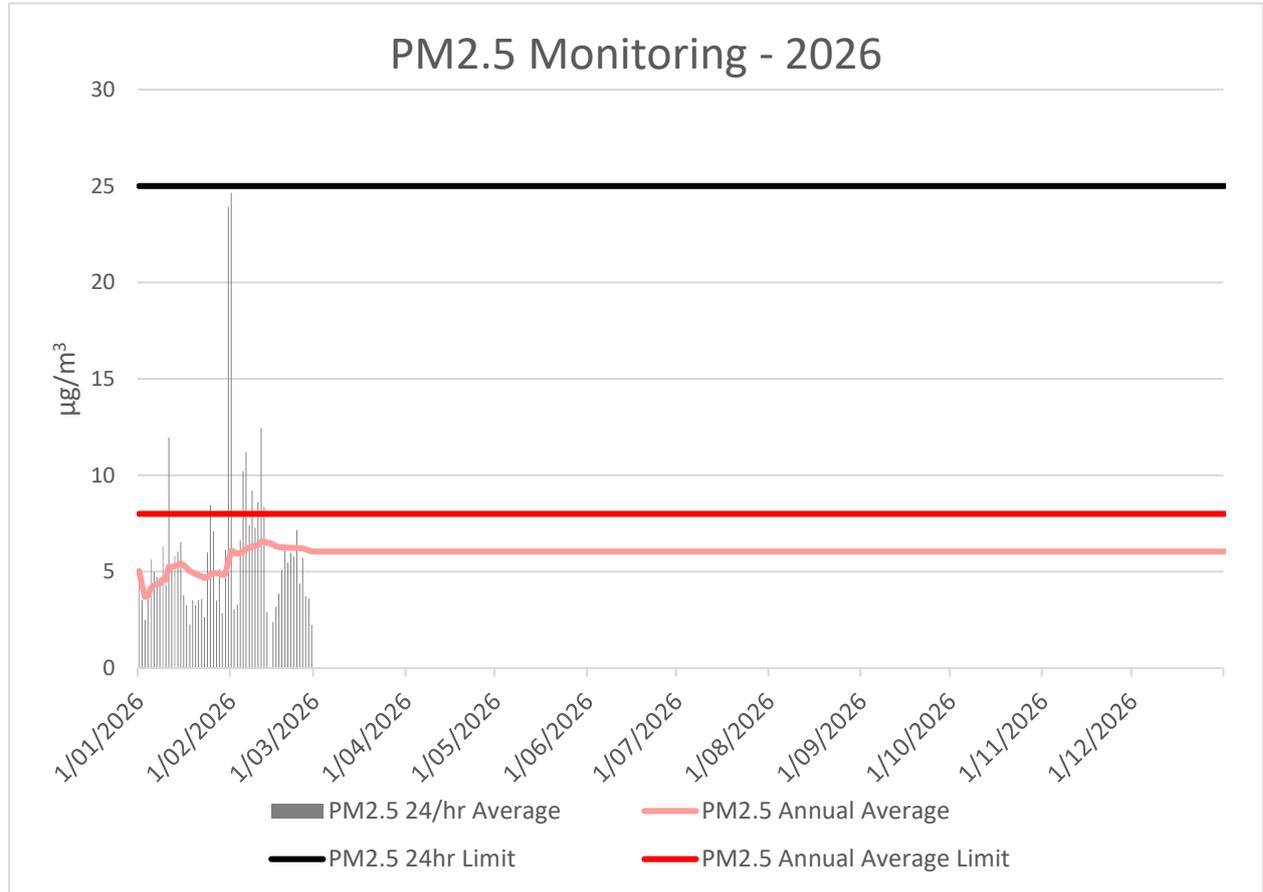
Variable	February	Total	Valid
A/C Temp	100%	8064	8064
A1_Scaled	100%	8064	8064
Band	100%	8064	8064
Bypass Flow	100%	8064	8064
Cap Temp	100%	8064	8064
Case Temp	100%	8064	8064
Config	100%	8064	8064
Dew Point	100%	8064	8064
Dig-In	100%	8064	8064
Dig-Latch	100%	8064	8064
ESN	100%	8064	8064
Filter Freq	100%	8064	8064
Filter Load	100%	8064	8064
Humidity	100%	8064	8064
MC	100%	8064	8064
MC 12Hr	100%	8064	8064
MC 1Hr	100%	8064	8064
MC 24Hr	100%	8064	8064
MC 30min	100%	8064	8064
MC 8Hr	100%	8064	8064
MC Total	100%	8064	8064
Mobile Signal	100%	8064	8064
Noise	100%	8064	8064
PM10 Flow	100%	8064	8064
Pressure	100%	8064	8064
Site	0.0%	8064	0
Temperature	100%	8064	8064
Tube Temp	100%	8064	8064
Vac Pressure	100%	8064	8064
Volts	100%	8064	8064

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Air Quality – PM2.5

Delta Coal utilises PM_{2.5} data obtained from Delta Electricity owned and operated beta attenuation monitor (BAM). The PM_{2.5} monitor is located on Tingley Road, Wyee.



There were no exceedances of the PM_{2.5} daily average limit in February 2026. The 12-month rolling average PM_{2.5} value on 28 February was 6 $\mu\text{g}/\text{m}^3$. PM_{2.5} data availability in February was 94%. The 2026 year to date PM_{2.5} data availability is 96.61%.

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Weather Data

A summary of weather data recorded by a meteorological monitoring station at the adjacent Mannering Colliery is presented below for the year to date. (EPA ID no. 26).

Monthly Weather Data 2026			
Licensee	Great Southern Energy Pty Ltd		
Location	Mannering Colliery Meteorological station		
Date published	Refer report date		
Date sampled	Daily		
Date obtained	12 March 2026		
Month	Total Rainfall/Month (mm)	Min Temp	Max Temp
Jan-26	224	14.9	40.4
Feb-26	114	14.2	37.4

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Variable	February	Total	Valid
Baro (Corrected)	100%	2688	2688
10m Temp	100%	2688	2688
2m Temp	100%	2688	2688
A1_Scaled	100%	2688	2688
Assumed Temp	100%	2688	2688
Band	100%	2688	2688
Barometric	100%	2688	2688
Config	100%	2688	2688
Daily Evap	100%	2688	2688
Daily Rain	100%	2688	2688
Delta T	100%	2688	2688
Dew Point	100%	2688	2688
Dig-In	100%	2688	2688
Dig-Latch	100%	2688	2688
ESN	100%	2688	2688
FDI	100%	2688	2688
Heat Index	100%	2688	2688
Humidity	100%	2688	2688
Mobile Signal	100%	2688	2688
Rain	100%	2688	2688
Raw Evap	100%	2688	2688
S Class	100%	2688	2688
Scalar WS	100%	2688	2688
Sigma	100%	2688	2688
Site	0.0%	2688	0
Solar Radiation	100%	2688	2688
Vector WD	100%	2688	2688
Vector WS	100%	2688	2688
Volts	100%	2688	2688
Wind Chill	100%	2688	2688
Wind Direction	100%	2688	2688
Wind Speed	100%	2688	2688
WS Avg	100%	2688	2688
WS Gust	100%	2688	2688