

Dartbrook Mine Environmental Protection Licence Monitoring Data

Dartbrook Operations Pty Limited is the operator of Dartbrook Mine.

Environmental Protection Licence (EPL) 4885 outlines the environmental management and monitoring requirements for Dartbrook Mine. The key licence details for EPL 4885 are presented in **Table 1**. Further information regarding EPL 4885 can be obtained from the public register for the *Protection of the Environment Operations Act 1997*: <https://app.epa.nsw.gov.au/prpoeoapp/>

Table 1 Licence Details

Licence Number	EPL 4885
Licence Holder	Dartbrook Operations Pty Ltd
Premises	Dartbrook Mine Stair Street Muswellbrook NSW 2333
Discharge / Monitoring Point	Point 5 – Effluent irrigation area Point 6 – Hunter River Salinity Trading Scheme discharge point Point 7 – Groundwater monitoring

EPL 4885 identifies three discharge/monitoring points, as detailed in **Table 2**. Monitoring of soil quality at the effluent irrigation area (EPL Point 5) is not required until the recommencement of effluent application at the premises.

Table 2 Discharge / Monitoring Points

Point ID	Description	Monitoring Frequency	Monitoring Parameter	Limit
5 *	Effluent irrigation area	Yearly	Available phosphorus	N/A
			Total Phosphorus	N/A
			Conductivity	N/A
			Exchangeable sodium	N/A
			Nitrate	N/A
			Total Nitrogen	N/A
			pH	N/A
6	Hunter River Salinity Trading Scheme discharge point	During discharge	Conductivity	N/A
			pH	6.5 – 9.5
			Total suspended solids	120 mg/L
7	Groundwater monitoring	Quarterly	Depth	N/A
			pH	N/A
			Salinity	N/A

* Not required to be monitored until the recommencement of effluent application at the premises.

Under EPL 4885, no monitoring was required for the effluent irrigation area, Hunter River Salinity Trading Scheme discharge point or groundwater for this reporting period.

EPL 4885 identifies five air quality monitoring points, as detailed in **Table 3**. Air quality monitoring data is included in **Appendix A**.

Table 3 Air Quality Monitoring Points

Point ID	Description	Monitoring Frequency	Monitoring Parameter	Limit
21, 22, 23, 24 and 25	Air Quality Monitoring	Every 6 days	Particulate matter below 10 micrograms per cubic metre ($\mu\text{g}/\text{m}^3$)	50 $\mu\text{g}/\text{m}^3$ (24-hour Averaging Period)

APPENDIX A
AIR QUALITY
MONITORING DATA

Sample Location	EPA ID No.	Sample Date	NO SAMPLE / Comment	Averaging Period	PM 10 (µg/m ³)
ESMS	21	01-Dec-24		24 hour	11.3
		07-Dec-24		24 hour	13.8
		13-Dec-24		24 hour	14.9
		19-Dec-24		24 hour	15.6
		25-Dec-24		24 hour	7.8
		31-Dec-24		24 hour	20.0
Fan Site 1	22	01-Dec-24		24 hour	11.7
		07-Dec-24		24 hour	13.2
		13-Dec-24		24 hour	39.9
		19-Dec-24		24 hour	27.4
		25-Dec-24		24 hour	11.7
		31-Dec-24		24 hour	30.8
Hulbert	23	01-Dec-24	No power (ongoing fault).	24 hour	
		07-Dec-24	No power (ongoing fault).	24 hour	
		13-Dec-24	No power (ongoing fault).	24 hour	
		19-Dec-24	No power (ongoing fault).	24 hour	
		25-Dec-24	No power (ongoing fault).	24 hour	
		31-Dec-24	No power (ongoing fault).	24 hour	
Macairstrip	24	01-Dec-24		24 hour	11.8
		07-Dec-24		24 hour	15.8
		13-Dec-24		24 hour	39.0
		19-Dec-24		24 hour	19.1
		25-Dec-24		24 hour	13.1
		31-Dec-24		24 hour	34.7
Standings	25	01-Dec-24		24 hour	10.9
		07-Dec-24		24 hour	13.6
		13-Dec-24		24 hour	31.6
		19-Dec-24		24 hour	13.0
		25-Dec-24		24 hour	9.4
		31-Dec-24		24 hour	20.7