

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	AQC Dartbrook Management Pty Ltd
Premises	Dartbrook Mine Stair Street Muswellbrook NSW 2333
Discharge / Monitoring Point	Point 3 – Groundwater monitoring Point 4 – Hunter River Salinity Trading Scheme discharge point Point 5 – Effluent irrigation area

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 during care and maintenance.

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 during care and maintenance.

Appendix A presents the monitoring data collected in accordance with EPL 4885. There were no water discharges during the reporting period and as such, no monitoring was required at EPL Point 4.

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

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
GROUNDWATER
MONITORING DATA

Sample Location	Sample Date	NO SAMPLE / Comment	Depth to Water - Metres	pH - Field	Electrical Conductivity $\mu\text{S}/\text{cm}$ - Field
ADN1	18-July-24		5.42	6.92	3,320
Athlone		No access			
BEL1	19-July-24		2.38	7.49	3,630
Belgrave	19-July-24		6.32	7.62	8,460
CAD2	22-July-24	Bore dry			
CAS2	19-July-24		30.22	6.89	13,300
CAS4	19-July-24		24.6	7.19	9,900
COR3	22-July-24		3.82	7.93	2,106
DAN2	19-July-24		4.25	6.91	2,344
DDH124	19-July-24	Bore dry	14.65		
DDH183	19-July-24		26.36	6.97	6,500
DDH193		No access			
DDH212a	22-July-24		26.98	7.99	3,970
DDH212b	22-July-24		26.89	7.98	3,870
DDH212c	22-July-24		26.78	8.00	3,950
FRA1	09-July-24		10.26	6.86	1,652
GWO38412	19-July-24		2.39	7.11	1,218
GWO38582		No access			
JLON1	19-July-24	Bore dry			
KAl1	22-July-24		10.93	7.22	636.1
Kayuga 1	09-July-24		4.96	7.30	3,130
RDH271	19-July-24		83.17	7.36	5,940
RDH505	09-July-24		5.42	6.92	10,800
RDH508		Bore damaged – unable to be sampled			
RDH508a		Bore damaged – unable to be sampled			
RDH509	09-July-24		9.92	7.14	3,040
RDH510	09-July-24		9.76	7.66	6,090
RDH510a	09-July-24		9.66	7.06	8,070
RDH511	09-July-24		7.71	7.88	3,550
RDH511a	09-July-24		7.71	7.25	6,470
TLON1	19-July-24		6.84	7.28	9,080
WAL2	22-July-24		9.38	7.15	1,878
WM1a	19-July-24		5.94	7.24	833.5
WM3	22-July-24		6.57	6.86	1,756

APPENDIX B
AIR QUALITY
MONITORING DATA

Sample Location	EPA ID No.	Sample Date	NO SAMPLE / Comment	Averaging Period	PM ₁₀ (µg/m ³)
ESMS	21	4-July-24		24 hour	12.8
		10-July-24		24 hour	1.1
		16-July-24		24 hour	0.0
		22-July-24		24 hour	3.5
		28-July-24		24 hour	0.4
Fan Site 1	22	4-July-24		24 hour	16.7
		10-July-24		24 hour	0.7
		16-July-24		24 hour	0.0
		22-July-24		24 hour	4.7
		28-July-24		24 hour	0.4
Hulbert	23	4-July-24	No power (ongoing fault)	24 hour	
		10-July-24	No power (ongoing fault)	24 hour	
		16-July-24	No power (ongoing fault)	24 hour	
		22-July-24	No power (ongoing fault)	24 hour	
		28-July-24	No power (ongoing fault)	24 hour	
Macairstrip	24	4-July-24		24 hour	16.7
		10-July-24		24 hour	0.2
		16-July-24		24 hour	0.0
		22-July-24		24 hour	3.8
		28-July-24		24 hour	0.6
Standings	25	4-July-24		24 hour	13.9
		10-July-24		24 hour	0.7
		16-July-24		24 hour	0.0
		22-July-24		24 hour	7.0
		28-July-24		24 hour	0.4