

## 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

<b>Licence Number</b>	EPL 4885
<b>Licence Holder</b>	AQC Dartbrook Management Pty Ltd
<b>Premises</b>	Dartbrook Mine Stair Street Muswellbrook NSW 2333
<b>Discharge / Monitoring Point</b>	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	11-Apr-24		5.73	7.37	2,510
Athlone	15-Apr-24	No access			
BEL1	15-Apr-24		3.1	7.36	7,110
Belgrave	15-Apr-24		6.55	7.28	7,650
CAD2	11-Apr-24	Bore dry			
CAS2	11-Apr-24		30.54	6.91	11,800
CAS4	11-Apr-24		24.6	7.13	8,660
COR3	11-Apr-24		4.3	7.47	1,927
DAN2	11-Apr-24		5.22	6.98	2,033
DDH124	11-Apr-24	Bore dry	14.61		
DDH183	15-Apr-24		26.62	6.94	5,770
DDH193	16-Apr-24	No access			
DDH212a	16-Apr-24		26.94	8.04	3,930
DDH212b	16-Apr-24		26.84	8.07	3,940
DDH212c	16-Apr-24		26.74	7.87	3,900
FRA1	15-Apr-24		10.31	7.08	1,623
GWO38412	11-Apr-24		2.64	6.97	998.4
GWO38582	15-Apr-24	No access			
JLON1	15-Apr-24		5.94	7.89	5,370
KAl1	15-Apr-24		11.08	7.44	511.5
Kayuga 1	15-Apr-24		5.46	7.38	3,180
RDH271	11-Apr-24		83.15	7.40	5,180
RDH505	16-Apr-24		5.98	6.93	9,780
RDH508		Bore damaged - unable to be sampled			
RDH508a		Bore damaged - unable to be sampled			
RDH509	15-Apr-24		10.03	7.15	6,000
RDH510	15-Apr-24		9.94	7.54	5,430
RDH510a	15-Apr-24		9.85	7.03	6,830
RDH511	15-Apr-24		7.76	7.86	3,240
RDH511a	15-Apr-24		7.76	7.29	5,680
TLON1	11-Apr-24		6.68	7.36	2,231
WAL2	15-Apr-24		9.61	7.41	2,034
WM1a	11-Apr-24		6.36	7.16	701.1
WM3	11-Apr-24		6.88	6.57	1,856

**APPENDIX B**  
**AIR QUALITY**  
**MONITORING DATA**

Sample Location	EPA ID No.	Sample Date	NO SAMPLE / Comment	Averaging Period	PM <sub>10</sub> (µg/m <sup>3</sup> )
ESMS	21	06-Jan-24		24 hour	28.7
		12-Jan-24		24 hour	8.7
		18-Jan-24		24 hour	5.0
		24-Jan-24		24 hour	18.7
		30-Jan-24		24 hour	18.6
Fan Site 1	22	06-Jan-24		24 hour	32.1
		12-Jan-24		24 hour	11.8
		18-Jan-24		24 hour	7.0
		24-Jan-24		24 hour	27.8
		30-Jan-24		24 hour	20.7
Hulbert	23	06-Jan-24	No power (ongoing fault)	24 hour	
		12-Jan-24	No power (ongoing fault)	24 hour	
		18-Jan-24	No power (ongoing fault)	24 hour	
		24-Jan-24	No power (ongoing fault)	24 hour	
		30-Jan-24	No power (ongoing fault)	24 hour	
Macairstrip	24	06-Jan-24		24 hour	30.9
		12-Jan-24		24 hour	11.5
		18-Jan-24		24 hour	5.4
		24-Jan-24		24 hour	34.3
		30-Jan-24		24 hour	21.3
Standings	25	06-Jan-24		24 hour	28.7
		12-Jan-24		24 hour	8.7
		18-Jan-24		24 hour	5.0
		24-Jan-24		24 hour	18.7
		30-Jan-24		24 hour	18.6