

April 2022

Dartbrook Mine Environmental Protection Licence Monitoring Data

AQC Dartbrook Management Pty Limited (AQC) is the owner of the Dartbrook Mine, located in the Upper Hunter Valley of New South Wales. AQC is a wholly owned subsidiary of Australian Pacific Coal Limited.

AQC is the holder of Environmental Protection Licence (EPL) 4885, which outlines 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 (HRSTS) 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
3	Groundwater monitoring	Quarterly	Depth	N/A
			pH	N/A
			Salinity	N/A
4	HRSTS Discharge Point	During discharge	Conductivity	N/A
			pH	6.5 – 9.5
			Total suspended solids	120 mg/L

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

** 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.

Appendix A
Monitoring Data

Sample Location	Sample Date	NO SAMPLE / Comment	Depth to Water - metres	pH - field	Electrical Conductivity $\mu\text{S}/\text{cm}$ - field
ADN1	19-Apr-22		4.69	7.25	2620
Athlone	13-Apr-22	No access - gate locked			
BEL1	13-Apr-22	Very overgrown - extremely hazardous	1.97	8.37	51.4
Belgrave		No access			
BIR2		No access permitted by landowner			
BRA2		No access permitted by landowner			
BRO3		No access permitted by landowner			
CAD2	19-Apr-22		10.86	8.32	20.6
CAS1	13-Apr-22		11	8.27	7930
CAS2	13-Apr-22		34.42	6.80	13600
CAS4	13-Apr-22	Overgrown	26.3	6.82	11300
Casey	13-Apr-22		9.24	7.06	1158
COR2	19-Apr-22	No access, gates locked			
COR3	19-Apr-22	No access, gates locked			
DAN2	19-Apr-22		3.04	7.09	2430
DAY1		No access permitted by landowner			
DDH124	13-Apr-22	Too low to sample @ 13.13m			
DDH183		No access - gate locked			
DDH186a		No access - gate locked			
DDH186b		No access - gate locked			
DDH186c		No access - gate locked			
DDH193		No access - gate locked			
DDH212a		No access - gate locked			
DDH212b		No access - gate locked			
DDH212c		No access - gate locked			
DDH242	19-Apr-22	Dry			
DDH243	19-Apr-22	Dry			
DDH244R	19-Apr-22	Dry			
DDH245	19-Apr-22	Dry			
DDH306a	19-Apr-22		18.75	8.39	2520
DDH306b	19-Apr-22		18.04	7.84	7180
DDH306c	19-Apr-22		19.95	7.63	13500
DDH74	19-Apr-22		7.03	7.77	3010
DUCN	13-Apr-22	Overgrown	8.07	7.32	2152
ESP2	22-Apr-22	Too low to sample			
FRA1	12-Apr-22		9.28	7.06	1428
GAR2	12-Apr-22		8.1	7.45	601
GAR3	12-Apr-22		9.51	7.08	9210
GAR4	12-Apr-22		7.83	7.73	1083
GOO1	19-Apr-22		13.53	7.20	838.6

GOO2	19-Apr-22		13.41	7.37	3630
GWO38412	13-Apr-22		2.21	6.98	909.3
GWO38582		No access, gate locked			
HAL1	19-Apr-22		3.45	7.71	401.2
JLON1	13-Apr-22	Overgrown weeds	13.12	8.00	2060
JOR1		No access			
JS & NM Lonergan	13-Apr-22		10.39	7.91	9410
KAI1	12-Apr-22		10.31	7.24	507.1
KAI2	13-Apr-22		9.28	7.07	622.7
KAI3	13-Apr-22		7.46	7.36	1279
Kayuga 1	13-Apr-22	Overgrown, very hazardous	7.68	6.78	525.7
OBR1	13-Apr-22		8.15	5.85	109
RDH266	22-Apr-22	Dry			
RDH271	13-Apr-22		83.05	7.39	5920
RDH280	13-Apr-22	Dry			
RDH289	19-Apr-22	Blocked @ 42.49m			
RDH421	19-Apr-22	Dry			
RDH505	19-Apr-22		3.73	7.37	9540
RDH508		Bores slashed over - unable to sample			
RDH508a		Bores slashed over - unable to sample			
RDH509	12-Apr-22		9.03	7.30	1340
RDH509a	12-Apr-22		13.85	7.29	3330
RDH510	12-Apr-22		8.37	7.00	7170
RDH510a	12-Apr-22		8.29	7.01	7590
RDH511	19-Apr-22	Grass too long can't find			
RDH511a	19-Apr-22	Grass too long can't find			
RDH534a	19-Apr-22	Blocked @ 2.28m			
RDH534b	19-Apr-22		36.58	7.52	4860
RDH534c	19-Apr-22		14.61	6.97	5440
RDH535a	22-Apr-22		60.97	6.92	12300
RDH535b	22-Apr-22		45.53	6.96	14600
RDH535c	22-Apr-22		20.51	6.92	14000
RDH536a	22-Apr-22	No access permitted by landowner			
RDH536b	22-Apr-22	No access permitted by landowner			
RDH536c	22-Apr-22	No access permitted by landowner			
RDH537a	22-Apr-22		17.68	7.26	10600
RDH537b	22-Apr-22		8.22	7.42	4070
RDH537c	22-Apr-22		35.55	7.38	13900
RDH538a	22-Apr-22		18.11	7.17	11700
RDH538b	22-Apr-22	Dry @ 41.25m			
RDH538c	22-Apr-22		46.34	7.44	17000
RDH539a	13-Apr-22		12.87	7.23	5160
RDH539b	13-Apr-22		12.88	7.19	7150
RDH539c	13-Apr-22		22.48	8.54	3340
RDH76A	13-Apr-22	Dead animal in bore	15.84	7.01	5840

RDH76B	13-Apr-22	Blocked @ 15.83m			
RIV1	13-Apr-22		9.58	7.47	1285
Smith	22-Apr-22	No access			
TEE4	19-Apr-22		4.49	7.09	2265
TLON1	13-Apr-22	Overgrown	7.55	6.84	5380
WAL2	19-Apr-22		8.54	7.29	2116
WM1a	19-Apr-22		4.71	7.52	1228
WM3	19-Apr-22		6.33	6.90	2337
WPWatt		Bore collapsed			
AB01	12-Apr-22	Logger downloaded	8.43	7.52	1337
AB02	12-Apr-22	Logger downloaded	11.62	7.40	518
AB03	12-Apr-22	Baro downloaded	9.51	7.89	461
AB04	12-Apr-22	Logger downloaded	10.25	7.57	713.6
PB01		No access per client instruction. Gas present.			
PB02		Bore collapsed and logger not in bore.			
PB03	12-Apr-22	Logger downloaded	28.07	6.93	2034
PB04	12-Apr-22	Logger downloaded	13.73	8.73	4920
PB05		Logger not in bore and bore collapsed			
VWP01	19-Apr-22	Logger downloaded			
VWP02	19-Apr-22	Logger downloaded			
VWP03	19-Apr-22	Logger downloaded			
VWP04	19-Apr-22	Logger downloaded			