

October 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	Hunter River Salinity Trading Scheme (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 µS/cm - field
ADN1		No access, too wet			
Athlone		No access - gate locked			
BEL1	14-Oct-22	Very overgrown - dangerous			
Belgrave		No access, new fencing, locked gates			
BIR2		No access, new fencing, locked gates			
BRA2		No access, new fencing, locked gates			
BRO3		No access, new fencing, locked gates			
CAD2	17-Oct-22		5.86	7.17	4170
CAS1	14-Oct-22		8.82	9.15	4270
CAS2	14-Oct-22		32.07	6.85	9010
CAS4	14-Oct-22	Overgrown	24.66	7.25	8390
Casey	12-Oct-22		8.82	7.10	1335
COR2	17-Oct-22		1.41	7.48	818
COR3	17-Oct-22		1.37	7.76	1977
DAN2	12-Oct-22		2.54	6.99	2427
DAY1		No access permitted by land owner			
DDH124	17-Oct-22		12.66	7.18	1704
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	17-Oct-22	Dry			
DDH243	17-Oct-22	Dry			
DDH244R	17-Oct-22	Dry			
DDH245	17-Oct-22	Dry			
DDH306a	10-Oct-22		18.76	8.21	2530
DDH306b	10-Oct-22		18.39	7.75	7020
DDH306c	10-Oct-22		19.44	7.76	12700
DDH74	10-Oct-22		6.05	7.61	2780
DUCN	12-Oct-22		7.07	7.28	126
ESP2	10-Oct-22		11.36	6.92	4840
FRA1	13-Oct-22		8.75	6.94	1506
GAR2	13-Oct-22		7.54	7.08	614
GAR3	13-Oct-22		8.91	7.11	757

GAR4	13-Oct-22		7.09	7.15	1790
GOO1	10-Oct-22		22.53	7.13	1650
GOO2	10-Oct-22		12.01	7.35	3510
GWO38412	14-Oct-22		2.25	7.51	611
GWO38582		No access, gate locked			
HAL1	12-Oct-22		2.58	7.17	1272
JLON1		No access, gate locked			
JOR1		No access			
JS & NM Lonergan	12-Oct-22		10.01	7.27	2239
KAI1	13-Oct-22		9.6	7.21	581
KAI2	13-Oct-22		8.79	7.12	619
KAI3	13-Oct-22		6.8	6.98	1480
Kayuga 1	14-Oct-22	Overgrown, dangerous	2.87	7.70	782
OBR1	13-Oct-22		7.49	7.36	1363
RDH266	17-Oct-22	Dry			
RDH271	17-Oct-22		83.05	7.38	5330
RDH280	17-Oct-22	Dry			
RDH289	17-Oct-22	Blocked @ 40.65m			
RDH421	17-Oct-22	Dry			
RDH505	10-Oct-22		2.03	7.28	10600
RDH508		Bores slashed over - unable to sample			
RDH508a		Bores slashed over - unable to sample			
RDH509	14-Oct-22		8.01	6.98	932
RDH509a	14-Oct-22		13.23	7.13	3720
RDH510	14-Oct-22	No access - new ringlock, electric barbed wire fence			
RDH510a	14-Oct-22	No access - new ringlock, electric barbed wire fence			
RDH511	14-Oct-22	Grass too long and thick, can't find			
RDH511a	14-Oct-22	Grass too long and thick, can't find			
RDH534a	10-Oct-22	Blocked			
RDH534b	10-Oct-22		36.33	7.24	4810
RDH534c	10-Oct-22		14.04	7.15	4290
RDH535a	10-Oct-22		60.82	6.74	10400
RDH535b	10-Oct-22		44.89	6.89	12700
RDH535c	10-Oct-22		16.4	6.92	10200
RDH536a	10-Oct-22	No access, new fencing			
RDH536b	10-Oct-22	No access, new fencing			
RDH536c	10-Oct-22	No access, new fencing			
RDH537a	10-Oct-22		17.65	7.05	9620
RDH537b	10-Oct-22		7.75	7.51	3790
RDH537c	10-Oct-22		35.45	7.02	12500
RDH538a	10-Oct-22	Black/brown in colour	17.02	6.71	10800

RDH538b	10-Oct-22		40.84	6.86	10800
RDH538c	10-Oct-22		46.17	7.08	14200
RDH539a	13-Oct-22		12.15	7.27	4300
RDH539b	13-Oct-22		12.52	7.15	6100
RDH539c	13-Oct-22		22.36	8.36	3240
RDH76A	14-Oct-22		10.25	12.86	5460
RDH76B	14-Oct-22		14.57	13.96	153
RIV1	13-Oct-22		9.03	7.38	1250
Smith	17-Oct-22		7.08	7.25	2066
TEE4	12-Oct-22		2.56	7.07	2125
TLON1	17-Oct-22		2	7.83	4110
WAL2	13-Oct-22		8.07	7.12	2184
WM1a	12-Oct-22		3.91	7.03	3920
WM3	10-Oct-22		6.09	7.02	2103
WPWatt		Bore collapsed			
AB01	14-Oct-22	Logger downloaded	7.26	6.94	1431
AB02	14-Oct-22	Logger downloaded	10.95	7.34	418
AB03	14-Oct-22	Logger downloaded	8.53	7.69	469
AB04	13-Oct-22	Logger downloaded	8.72	7.19	650
PB01		No access per client request			
PB02		No access per client request			
PB03	14-Oct-22	Logger downloaded	19.96	7.04	1827
PB04	13-Oct-22	Logger downloaded	13.37	8.74	4810
PB05		No access per client request			
VWP01	13-Oct-22	Logger downloaded			
VWP02	12-Oct-22	Logger downloaded			
VWP03	10-Oct-22	Logger downloaded			
VWP04	14-Oct-22	No access, too wet			