

July 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	15-Jul-22	No access - too much mud and water			
Athlone		No access - gate locked			
BEL1	19-Jul-22		1.23	8.26	10.9
Belgrave		No access - gate locked			
BIR2		No access - gate			
BRA2		Access denied until further notice			
BRO3		New fence installed stopping access			
CAD2	18-Jul-22	Too low to sample	10.95	7.42	10.43
CAS1	18-Jul-22		13.08	8.61	8510
CAS2	18-Jul-22		33.39	6.84	13900
CAS4	14-Jul-22		25.02	6.96	12600
Casey	15-Jul-22		9.38	7.35	1266
COR2	18-Jul-22		1.44	7.77	458
COR3	18-Jul-22		1.5	7.67	1966
DAN2	26-Jul-22		3.24	6.93	293
DAY1		Access denied until further notice			
DDH124	19-Jul-22	Too low to sample	12.91		
DDH183		No access - locked gate			
DDH186a		No access - locked gate			
DDH186b		No access - locked gate			
DDH186c		No access - locked gate			
DDH193		No access - locked gate			
DDH212a		No access - locked gate			
DDH212b		No access - locked gate			
DDH212c		No access - locked gate			
DDH242	26-Jul-22	Dry			
DDH243	26-Jul-22	Dry			
DDH244R	26-Jul-22	Dry			
DDH245	26-Jul-22	Dry			
DDH306a	26-Jul-22		18.98	8.20	2798
DDH306b	26-Jul-22	Frothy in purple and red plastic	18.46	7.75	7960
DDH306c	26-Jul-22	Frothy in purple and red plastic	19.78	7.66	14700
DDH74	26-Jul-22		6.8	7.68	3230
DUCN	19-Jul-22		7.58	7.42	2164
ESP2	14-Jul-22	Tree roots	11.94	6.99	5500
FRA1	14-Jul-22		9.63	6.96	1538
GAR2	18-Jul-22		8.28	7.09	639
GAR3	15-Jul-22		9.63	7.14	701

GAR4	18-Jul-22		7.91	7.19	2017
GOO1	18-Jul-22		23.41	7.15	1690
GOO2	00-Jan-00		13	7.20	3790
GWO38412	14-Jul-22		2.16	7.12	1201
GWO38582		No access - locked gate			
HAL1	26-Jul-22		3.52	7.16	1382
JLON1	19-Jul-22		13.02	7.59	2362
JOR1		No access			
JS & NM Lonergan	15-Jul-22		10.55	7.16	1689
KAI1	15-Jul-22		10.39	7.06	521
KAI2	15-Jul-22		9.49	7.27	626
KAI3	18-Jul-22		7.6	6.99	1519
Kayuga 1	19-Jul-22		5.84	6.60	351
OBR1	18-Jul-22		8.34	7.54	1441
RDH266	26-Jul-22	Dry			
RDH271	19-Jul-22	Slight H2S odour	83.04	7.33	5930
RDH280	19-Jul-22	Dry			
RDH289	26-Jul-22	Blocked @ 42.50m			
RDH421	26-Jul-22	Dry			
RDH505	19-Jul-22		3.37	7.26	11100
RDH508	18-Jul-22	Bores slashed over - unable to sample			
RDH508a	18-Jul-22	Bores slashed over - unable to sample			
RDH509	18-Jul-22		8.98	7.18	820
RDH509a	18-Jul-22		13.78	7.27	3880
RDH510	18-Jul-22	No access, new fence & gate locked			
RDH510a	18-Jul-22	No access, new fence & gate locked			
RDH511	18-Jul-22	Grass too long can't find			
RDH511a	18-Jul-22	Grass too long can't find			
RDH534a	18-Jul-22	Blocked			
RDH534b	19-Jul-22		36.61	7.16	5270
RDH534c	19-Jul-22		15.75	6.65	5860
RDH535a	26-Jul-22	Frothy in both plastics	60.85	6.89	11700
RDH535b	26-Jul-22	Lab to filter	45.06	6.91	14200
RDH535c	26-Jul-22		18.13	6.89	12400
RDH536a		No access permitted by landowner			
RDH536b		No access permitted by landowner			
RDH536c		No access permitted by landowner			
RDH537a	26-Jul-22	Frothy in purple plastic	17.07	7.31	10500
RDH537b	26-Jul-22		8.33	7.52	4060
RDH537c	26-Jul-22	Frothy in purple plastic	35.11	7.20	13200
RDH538a	26-Jul-22	Frothy in purple plastic	17.8	7.17	12200
RDH538b	26-Jul-22	Dry @41.25			
RDH538c	26-Jul-22	Frothy in purple and red plastic.	46.29	7.31	16100

RDH539a	18-Jul-22		12.96	7.19	4990
RDH539b	18-Jul-22		13.18	7.11	7740
RDH539c	18-Jul-22		22.56	8.25	3410
RDH76A	19-Jul-22	Lab to filter	15.06	7.04	5920
RDH76B	19-Jul-22	Too low to sample	15.7		
RIV1	15-Jul-22		9.91	7.38	1361
Smith	14-Jul-22		8.26	7.26	2204
TEE4	26-Jul-22		3.46	6.95	2387
TLON1	14-Jul-22		6.65	7.43	848.5
WAL2	15-Jul-22		9.02	7.12	2339
WM1a	26-Jul-22		4.85	7.30	1163
WM3	18-Jul-22		6.27	6.98	2330
WPWatt		Bore collapsed			
AB01	15-Jul-22	Logger downloaded	8.45	7.12	1500
AB02	15-Jul-22	Logger downloaded	11.76	7.12	543
AB03	15-Jul-22	Baro downloaded	9.41	7.52	494
AB04	15-Jul-22	Logger downloaded	9.68	7.22	704
PB01		No access per client instruction.			
PB02		No access per client instruction.			
PB03	15-Jul-22	Logger downloaded	29.01	6.79	1991
PB04	15-Jul-22	Logger downloaded	13.7	8.81	4810
PB05	15-Jul-22	No access per client instruction.			
VWP01	15-Jul-22	Won't connect			
VWP02	15-Jul-22	Logger downloaded			
VWP03	15-Jul-22	Logger downloaded, overgrown thick weeds			
VWP04	15-Jul-22	Logger downloaded			