

January 2023

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	11-Jan-23		4.83	7.71	3060
Athlone	06-Jan-23	No access – gate locked			
BEL1	06-Jan-23	Site badly overgrown	1.62	7.43	778.6
Belgrave	06-Jan-23	No access – gate locked			
BIR2	07-Feb-23	Very light orange colour. Overgrown and new fencing, potential 'no access'	4.65	7.59	3580
BRA2		Access denied until further notice			
BRO3	07-Feb-23	Very light orange colour. Odour hard to pick. Overgrown and new fencing, potential 'no access'	3.27	7.48	824.1
CAD2	11-Jan-23	Needs slashing	5.91	7.17	5490
CAS1	06-Jan-23		8.66	8.88	4610
CAS2	06-Jan-23		30.96	6.92	13700
CAS4	06-Jan-23		24.79	7.23	11800
Casey	09-Jan-23		8.81	7.04	1807
COR2	09-Jan-23		1.86	7.47	1801
COR3	09-Jan-23		1.89	7.93	2111
DAN2	11-Jan-23		2.95	6.97	3880
DAY1		Access denied until further notice			
DDH124	12-Jan-23	Strong H2S and possibly dead odour. Lots of insect matter and debris. 30mm tube blocked by frogs - difficult to bail.	13.02	7.20	3150
DDH183	06-Jan-23	Climbed over fence	24.16	6.94	6480
DDH186a	06-Jan-23	No access – gate locked			
DDH186b	06-Jan-23	No access – gate locked			
DDH186c	06-Jan-23	No access – gate locked			
DDH193	07-Feb-23	No access – gate locked			
DDH212a	07-Feb-23	No access – gate locked			
DDH212b	07-Feb-23	No access – gate locked			
DDH212c	07-Feb-23	No access – gate locked			
DDH242	05-Jan-23	Dry @ 20.43m. No mud.			
DDH243	05-Jan-23	Dry @ 17.15m. No mud.			
DDH244R	05-Jan-23	Dry @ 21.89m. No mud.			
DDH245	05-Jan-23	Bore damaged and dry @ 22.19m. No mud.			
DDH306a	10-Jan-23		18.99	8.29	2750
DDH306b	10-Jan-23		18.18	7.22	7740
DDH306c	10-Jan-23		19.27	7.50	14400
DDH74	10-Jan-23		5.86	7.73	2810

DUCN	09-Jan-23	Very light brown colour. Track needs slashing	6.58	7.23	867
ESP2	05-Jan-23	Light brown colour.	11.08	7.00	5110
FRA1	05-Jan-23		9.86	6.90	1663
GAR2	04-Jan-23		7.42	7.08	771.2
GAR3	04-Jan-23		9.12	7.00	1110
GAR4	04-Jan-23	Very light brown colour.	7.2	7.65	1743
GOO1	11-Jan-23		24.87	7.11	1673
GOO2	11-Jan-23		11.65	7.40	3710
GWO38412	06-Jan-23		2.45	6.96	1021
GWO38582	06-Jan-23	No access – gate locked			
HAL1	10-Jan-23		3.46	7.36	1604
JLON1	09-Jan-23		4.58	7.67	7870
JOR1	09-Jan-23		7.73	7.26	2027
JS & NM Lonergan	09-Jan-23		9.87	7.49	2503
KAI1	06-Jan-23		9.83	7.18	1608
KAI2	04-Jan-23		8.72	6.99	695.3
KAI3	04-Jan-23		6.87	6.96	1606
Kayuga 1	06-Jan-23	Light brown colour.	3.25	6.75	1188
OBR1	04-Jan-23		7.58	6.97	1586
RDH266	12-Jan-23	Dry @ 33.65m. No mud.			
RDH271	12-Jan-23	Very light brown colour.	83.07	7.41	5910
RDH280	12-Jan-23	Dry @ 41.19. No mud.			
RDH289	12-Jan-23	Blocked @ 18.80m			
RDH421	06-Jan-23	>100m and still dry			
RDH505	06-Jan-23		3.13	7.21	12000
RDH508	05-Jan-23	Ploughed in - unable to sample			
RDH508a	05-Jan-23	Ploughed in - unable to sample			
RDH509	05-Jan-23	Light brown colour.	8.43	7.64	1195
RDH509a	05-Jan-23	Strong odour.	13.33	7.31	4220
RDH510	12-Jan-23	Ladder over fence.	6.93	7.22	7740
RDH510a	12-Jan-23	Ladder over fence.	6.82	7.22	7460
RDH511	05-Jan-23	Very light brown colour.	6.2	7.35	3190
RDH511a	05-Jan-23	Light brown colour.	6.2	7.40	5050
RDH534a	11-Jan-23	Blocked @ 2.28m			
RDH534b	11-Jan-23		36.28	7.28	5460
RDH534c	11-Jan-23		13.86	6.86	5140
RDH535a	11-Jan-23	Strong odour. Frothy.	60.74	6.81	11600
RDH535b	11-Jan-23		45.53	6.90	14300
RDH535c	11-Jan-23		15.84	7.11	12100
RDH536a	07-Feb-23	Unable to locate to confirm access situation. Not on map.			
RDH536b	07-Feb-23	Unable to locate to confirm access situation. Not on map.			

RDH536c	07-Feb-23	Unable to locate to confirm access situation. Not on map.			
RDH537a	10-Jan-23		16.95	7.10	10300
RDH537b	10-Jan-23		8.03	7.54	12200
RDH537c	10-Jan-23		34.89	7.05	13600
RDH538a	10-Jan-23		17.14	5.89	6700
RDH538b	10-Jan-23		38.08	6.88	11000
RDH538c	10-Jan-23		46.06	7.22	16000
RDH539a	13-Jan-23		12.78	7.18	5230
RDH539b	13-Jan-23	Too low to sample, only able to collect approx 350mls.	12.49	7.13	7860
RDH539c	13-Jan-23	Very light brown colour.	21.95	8.35	3420
RDH76A	13-Jan-23		11.99	7.33	1396
RDH76B	13-Jan-23		14.35	6.94	234
RIV1	05-Jan-23		9.17	7.36	1491
Smith	06-Jan-23		7.66	7.19	2143
TEE4	10-Jan-23		3.38	7.02	2427
TLON1	06-Jan-23		1.36	7.55	918.9
WAL2	09-Jan-23		8.95	7.23	2181
WM1a	10-Jan-23		3.84	7.18	2029
WM3	11-Jan-23		6.43	7	2580
WPWatt	06-Jan-23	Bore collapsed and no access			
AB01	07-Feb-23	Very light brown colour. Logger downloaded	8.2	7.24	1736
AB02	07-Feb-23	Logger downloaded	11.47	7.21	572.8
AB03	06-Feb-23	Baro downloaded	9.92	7.51	540.9
AB04	07-Feb-23	Logger downloaded	10.6	7.25	689.2
PB01		No access per client request			
PB02		No access per client request			
PB03	06-Feb-23	Logger downloaded	29.39	6.73	2142
PB04	07-Feb-23	Slight H2S odour. Logger downloaded	13.43	8.74	5190
PB05	07-Feb-23	No access per client request			
VWP01	06-Feb-23	Logger downloaded			
VWP02	06-Feb-23	Logger downloaded			
VWP03	06-Feb-23	Logger downloaded			
VWP04	06-Feb-23	Logger downloaded			