

April 2018

## 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**

<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 2 – Hunter River Salinity Trading Scheme (HRSTS) discharge point Point 3 – Groundwater monitoring Point 4 – HRSTS discharge monitoring point Point 5 – Effluent irrigation area

EPL 4885 identifies three 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 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	06-Apr-18		7.2	7.37	2960
Athlone	06-Apr-18		7.52	6.8	11280
BEL1	07-Apr-18		3.91	7.26	9530
Belgrave	06-Apr-18	Need keys	8.36	7.57	8250
BIR2	05-Apr-18		6.58	8.31	1397
BRA2	15-May-18		9.73	6.86	2810
BRO3	05-Apr-18		5.23	8.82	1315
CAD2	05-Apr-18	TLTS Gritty	12.42		
CAS1	05-Apr-18		12.28	7.68	8660
CAS2	03-Apr-18		41.56	6.81	13170
CAS3		Dry			
CAS4	05-Apr-18		28.33	6.78	10630
Casey	05-Apr-18		10.34	7.06	1361
COR2	15-May-18		6.58	6.99	1376
COR3	15-May-18		5.24	7.89	1892
DAN2	05-Apr-18		6.61	6.96	2059
DAY1	05-Apr-18		8.8	7.19	1475
DDH124	05-Apr-18	TLTS 19cm water	14.64		
DDH183	06-Apr-18		28.45	6.83	7210
DDH186b	06-Apr-18	Need keys	44.15	7.03	1062
DDH193	06-Apr-18		42.33	6.81	6530
DDH212a	05-Apr-18		27.46	8.17	4040
DDH212b	05-Apr-18		27.36	8.08	3980
DDH212c	05-Apr-18		27.24	8.07	3970
FRA1	03-Apr-18		10.76	7.08	4990
GWO32889		Need permission			
GWO38412	05-Apr-18		5.31	7.08	3170
GWO38582	06-Apr-18		6.63	7.4	8870
JLON1	03-Apr-18	Dry			
JOR1	03-Apr-18	Pump running	11.93	7.02	2175
KAI1	03-Apr-18		11.36	6.86	507
KAI2	05-Apr-18		10.5	7.16	478
Kayuga 1	05-Apr-18		12.84	6.77	7750
RDH271	05-Apr-18	Bailer wont bring water up	82.67		
RDH505	03-Apr-18		6.31	6.95	10530
RDH506		No access			
RDH507		No access			
RDH508	03-Apr-18		10.65	7.12	7660
RDH508a	03-Apr-18		18.1	7.03	7640
RDH509	03-Apr-18		10.66	7.07	5350
RDH509a	03-Apr-18	13cm of water - mud	15.02		
RDH510	03-Apr-18		10.96	7.01	9200
RDH510a	03-Apr-18		10.86	6.9	9440
RDH511	03-Apr-18		8.44	8.04	5440
RDH511a	03-Apr-18		8.45	7.4	6810
RDH76	05-Apr-18		1.01	7.49	6710
TLON1	05-Apr-18		11.42	6.89	4770
WAL2	05-Apr-18		9.72	6.89	1799
WM1A	06-Apr-18		7.73	7.03	2620
WM3	05-Apr-18		7.63	6.69	3480