

April 2021

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 $\mu\text{S/cm}$ - field
ADN1	26/04/2021		5.75	7.00	3060
Athlone	5/05/2021		7.38	6.89	9930
BEL1	5/05/2021		4.25	7.39	2226
Belgrave	27/04/2021	No access			
BIR2	27/04/2021		6.95	8.31	648
BRA2	27/04/2021		7.39	7.02	3430
BRO3	27/04/2021	Mud	5.75		
CAD2	27/04/2021		11.87	7.76	4500
CAS1	5/05/2021	H2S odour	13.05	7.50	9500
CAS2	5/05/2021		40.43	6.71	15590
CAS3		Dry			
CAS4	5/05/2021	Oily odour	27.25	6.79	12450
Casey	3/05/2021		10.21	7.52	1195
COR2	27/04/2021	Locked gate			
COR3	27/04/2021	Locked gate			
DAN2	27/04/2021		4.92	6.89	3200
DAY1	27/04/2021		5.95	7.23	1096
DDH124	26/04/2021	Too low to sample	14.12		
DDH183	5/05/2021	H2S odour	27.80	6.89	8290
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	27/04/2021	Dry			
DDH243	27/04/2021	Dry			
DDH244R	27/04/2021	Dry			
DDH245	27/04/2021	Dry			
DDH306a	27/04/2021		20.65	8.36	1766
DDH306b	27/04/2021		21.32	7.57	7990
DDH306c	27/04/2021	H2S odour	23.76	7.56	15660
DDH74	27/04/2021	H2S odour	11.44	7.46	4840
DUC1		No access			
DUCN	26/04/2021	H2S odour	10.14	7.27	3220
DUCW		No access			
ESP2	27/04/2021	Dry			
FRA1	28/04/2021		10.38	7.11	933
GAR2	3/05/2021		9.14	7.26	621
GAR3	3/05/2021		10.31	7.16	1091
GAR4	28/04/2021		8.66	7.34	2219
GOO1	27/04/2021		37.84	7.18	1842
GOO2	27/04/2021	H2S odour	16.75	7.21	4340
GWO32889		Old windmill - blocked			
GWO38412	5/05/2021		2.37	7.35	869
GWO38582	5/05/2021	H2S odour	6.73	8.24	7010
HAL1	27/04/2021		5.00	7.24	893
JLON1	5/05/2021	H2S odour	13.76	7.03	4200
JOR1	27/04/2021	No access			
JS & NM Lonergan	3/05/2021		11.40	7.17	2092
KAI1	3/05/2021		11.10	6.71	527
KAI2	3/05/2021		10.24	7.30	550

KAI3	28/04/2021		8.46	7.15	1026
Kayuga 1	5/05/2021	Tree roots, H2S odour	13.24	6.87	8890
OBR1	28/04/2021		9.20	7.78	846
RDH266	26/04/2021	Dry			
RDH271	26/04/2021		82.95	7.30	6080
RDH280	26/04/2021	Dry			
RDH289	26/04/2021	Blocked			
RDH421	26/04/2021	Dry			
RDH505	26/04/2021		5.66	7.28	11900
RDH506		Discontinued			
RDH507		Discontinued			
RDH508		Bores slashed over, unable to sample			
RDH508a		Bores slashed over, unable to sample			
RDH509	28/04/2021		10.20	7.61	942
RDH509a	28/04/2021	H2S odour	14.53	7.01	2743
RDH510	28/04/2021		10.28	6.91	8890
RDH510a	28/04/2021		10.19	7.00	9890
RDH511	28/04/2021		8.10	7.68	2024
RDH511a	28/04/2021		8.10	7.41	3030
RDH534a	26/04/2021	Blocked			
RDH534b	26/04/2021	H2S odour	37.48	7.16	5600
RDH534c	26/04/2021		20.02	6.75	6850
RDH535a	3/05/2021	H2S odour	61.00	6.82	12590
RDH535b	3/05/2021		45.73	6.74	15190
RDH535c	3/05/2021		17.92	6.85	15900
RDH536a	27/04/2021	H2S odour	17.71	6.90	7210
RDH536b	27/04/2021		18.10	7.13	7850
RDH536c	27/04/2021		22.94	7.54	13870
RDH537a	3/05/2021	H2S odour	17.74	7.30	10760
RDH537b	3/05/2021	H2S odour	9.96	7.32	4280
RDH537c	3/05/2021	H2S odour	34.80	7.27	13000
RDH538a	3/05/2021	H2S odour	18.23	6.95	13390
RDH538b	3/05/2021	Too low to sample			
RDH538c	3/05/2021	H2S odour	46.70	7.21	17990
RDH539a	3/05/2021	H2S odour	13.50	5.42	5450
RDH539b	3/05/2021	Too low to sample	13.51		
RDH539c	3/05/2021		23.26	7.94	3590
RDH564		No access			
RDH76A	5/05/2021		7.54	7.61	7120
RIV1	3/05/2021	7ft high weeds, needs slashing	10.94	7.5	970
Smith	5/05/2021		9.57	7.02	2573
TEE4	27/04/2021		6.28	7.05	2673
TLON1	5/05/2021	Too low to sample	11.24		
WAL2	26/04/2021		9.43	6.89	2505
WM1a	27/04/2021		6.63	7.28	2350
WM1P		Access denied			
WM1Pa		Access denied			
WM3	27/04/2021	H2S odour	6.56	6.62	3250
WPWatt		Bore collapsed			