

January 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 | 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 | 07-Feb-22 | | 4.54 | 7.06 | 2930 |
| Athlone | 18-Jan-22 | No access - gate locked | | | |
| BEL1 | 18-Jan-22 | Very overgrown - hazard | 2.07 | 7.36 | 723 |
| Belgrave | | No access | | | |
| BIR2 | 01-Feb-22 | Very overgrown | 5.39 | 8.63 | 599 |
| BRA2 | 01-Feb-22 | | 5.20 | 7.40 | 2094 |
| BRO3 | 01-Feb-22 | Dry | | | |
| CAD2 | 10-Jan-22 | | 11.01 | 6.97 | 14460 |
| CAS1 | 18-Jan-22 | | 11.69 | 8.17 | 7930 |
| CAS2 | 18-Jan-22 | | 35.64 | 6.90 | 13370 |
| CAS4 | 18-Jan-22 | Overgrown into gate | 27.03 | 6.87 | 11340 |
| Casey | 11-Jan-22 | | 9.37 | 7.23 | 1144 |
| COR2 | 10-Jan-22 | Overgrown | 1.75 | 7.71 | 514 |
| COR3 | 10-Jan-22 | Overgrown | 1.41 | 8.05 | 2167 |
| DAN2 | 01-Feb-22 | | 2.92 | 6.98 | 2680 |
| DAY1 | 01-Feb-22 | Overgrown | 14.96 | 7.30 | 1076 |
| DDH124 | 02-Feb-22 | Too low to sample | 13.39 | | |
| DDH183 | 07-Feb-22 | 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 | 01-Feb-22 | Dry | | | |
| DDH243 | 01-Feb-22 | Dry | | | |
| DDH244R | 01-Feb-22 | Dry | | | |
| DDH245 | 01-Feb-22 | Dry | | | |
| DDH306a | 01-Feb-22 | | 18.57 | 8.14 | 2169 |
| DDH306b | 01-Feb-22 | | 18.02 | 7.98 | 6270 |
| DDH306c | 01-Feb-22 | | 20.30 | 7.50 | 7310 |
| DDH74 | 01-Feb-22 | | 7.69 | 7.64 | 2970 |
| DUCN | 07-Feb-22 | Dead smell | 8.87 | 7.41 | 2730 |
| ESP2 | 11-Jan-22 | Dry | | | |
| FRA1 | 06-Jan-22 | High temperature reading - 36 degrees | 9.26 | 7.09 | 905 |
| GAR2 | 06-Jan-22 | | 8.17 | 7.16 | 599 |
| GAR3 | 06-Jan-22 | | 9.49 | 7.15 | 809.9 |
| GAR4 | 06-Jan-22 | | 7.72 | 7.56 | 1353 |
| GOO1 | 10-Jan-22 | | 15.96 | 6.62 | 179 |
| GOO2 | 10-Jan-22 | | 14.44 | 7.28 | 4510 |
| GWO38412 | 18-Jan-22 | | 2.32 | 7.09 | 867 |
| GWO38582 | 18-Jan-22 | No access - locked gate | | | |
| HAL1 | 01-Feb-22 | Weeds, can't see iron posts - hazard | 3.25 | 7.68 | 306.3 |
| JLON1 | 05-Jan-22 | | 13.63 | 7.62 | 6830 |
| JOR1 | | No access | | | |
| JS & NM Lonergan | 11-Jan-22 | | 10.60 | 7.22 | 2045 |
| KAI1 | 05-Jan-22 | High, thick weeds | 10.25 | 7.25 | 529 |
| KAI2 | 06-Jan-22 | | 9.27 | 7.08 | 418 |

| | | | | | |
|-----------------|-----------|--|-------|------|-------|
| KAI3 | 06-Jan-22 | High temperature reading - 36 degrees | 7.41 | 7.12 | 790 |
| Kayuga 1 | 18-Jan-22 | Overgrown | 9.95 | 6.90 | 9410 |
| OBR1 | 06-Jan-22 | | 8.11 | 7.64 | 774 |
| RDH266 | 18-Jan-22 | Dry | | | |
| RDH271 | 18-Jan-22 | | 82.95 | 7.44 | 5550 |
| RDH280 | 18-Jan-22 | Dry | | | |
| RDH289 | 07-Feb-22 | Blocked, too low to sample | 42.49 | | |
| RDH421 | 07-Feb-22 | Dry | | | |
| RDH505 | 11-Jan-22 | | 4.00 | 7.40 | 11400 |
| RDH508 | 07-Feb-22 | Bores run over - unable to sample | | | |
| RDH508a | | Bores run over - unable to sample | | | |
| RDH509 | | Bores run over - unable to sample | | | |
| RDH509a | 01-Feb-22 | No access, gate locked | | | |
| RDH510 | 01-Feb-22 | No access, gate locked | | | |
| RDH510a | 01-Feb-22 | No access, gate locked | | | |
| RDH511 | 11-Jan-22 | Grass too long can't find | | | |
| RDH511a | 11-Jan-22 | Grass too long can't find | | | |
| RDH534a | 11-Jan-22 | Blocked @2.29 | | | |
| RDH534b | 11-Jan-22 | | 36.73 | 7.33 | 5750 |
| RDH534c | 11-Jan-22 | | 15.07 | 6.94 | 5970 |
| RDH535a | 07-Feb-22 | | 60.91 | 6.88 | 10800 |
| RDH535b | 07-Feb-22 | Grey/white | 45.72 | 7.01 | 13000 |
| RDH535c | 07-Feb-22 | | 20.77 | 6.85 | 14900 |
| RDH536a | 07-Feb-22 | Grey, black bits | 15.32 | 6.96 | 7070 |
| RDH536b | 07-Feb-22 | Light grey, black tiny bits | 16.45 | 7.14 | 7010 |
| RDH536c | 07-Feb-22 | White/grey, fizzy water | 22.91 | 7.74 | 11900 |
| RDH537a | 19-Jan-22 | | 17.62 | 7.18 | 10460 |
| RDH537b | 19-Jan-22 | | 7.89 | 7.47 | 3870 |
| RDH537c | 19-Jan-22 | | 35.01 | 7.16 | 12410 |
| RDH538a | 07-Feb-22 | | 18.15 | 7.16 | 12400 |
| RDH538b | 07-Feb-22 | Dry @41.25 | | | |
| RDH538c | 07-Feb-22 | Black/grey. Very fizzy water. | 46.30 | 7.23 | 10400 |
| RDH539a | 19-Jan-22 | Overgrown | 12.69 | 7.12 | 5280 |
| RDH539b | 19-Jan-22 | Too low to sample | 12.63 | 7.01 | 7000 |
| RDH539c | 19-Jan-22 | Overgrown access | 22.55 | 8.75 | 1215 |
| RDH76A | 18-Jan-22 | Overgrown | 16.78 | 7.07 | 5630 |
| RDH76B | 18-Jan-22 | Overgrown | 31.39 | 7.14 | 247 |
| RIV1 | 05-Jan-22 | High, thick weeds | 9.70 | 7.44 | 970 |
| Smith | 06-Jan-22 | | 8.12 | 7.27 | 1940 |
| TEE4 | 01-Feb-22 | | 4.51 | 7.04 | 2700 |
| TLON1 | 18-Jan-22 | | 9.29 | 6.98 | 6760 |
| WAL2 | 11-Jan-22 | High weeds - overgrown bore | 8.47 | 7.16 | 2840 |
| WM1a | 01-Feb-22 | | 4.50 | 7.30 | 1558 |
| WM3 | 10-Jan-22 | | 6.39 | 7.06 | 3071 |
| AB01 | 11-Jan-22 | Logger downloaded | 8.36 | 7.45 | 1140 |
| AB02 | 11-Jan-22 | Logger downloaded | 11.65 | 7.37 | 559 |
| AB03 | 06-Jan-22 | Baro downloaded | 9.38 | 7.91 | 456 |
| AB04 | 06-Jan-22 | Logger downloaded | 10.31 | 7.53 | 481 |
| PB01 | | No access per client instruction. Gas present. | | | |
| PB02 | | Bore collapsed and logger not in bore. | | | |
| PB03 | 06-Jan-22 | Logger downloaded | 28.84 | 7.01 | 1636 |
| PB04 | 06-Jan-22 | Logger downloaded | 13.77 | 8.57 | 4080 |
| PB05 | | Logger not in bore and bore collapsed | | | |
| VWP01 | 11-Jan-22 | Won't connect | | | |
| VWP02 | 07-Feb-22 | Logger downloaded | | | |

| | | | | | |
|--------------|-----------|--|--|--|--|
| VWP03 | 11-Jan-22 | Logger downloaded, overgrown thick weeds | | | |
| VWP04 | 07-Feb-22 | Logger downloaded | | | |