

Water Balance Report

Hunter Valley 2016 – 2017

| Water balance component | Sources of water | | Distribution of water | | % of volume measured |
|---|------------------|-------------|-----------------------|--------------|----------------------|
| | Volume (ML) | % of total | Volume (ML) | % of total | |
| Storage Volume | | | | | |
| Volume in storage at start of year | | | 855,210 | | |
| Volume in storage at end of year | | | 892,745 | | |
| Change in storage | | | 37,535 | 7.5% | 100% |
| Barnard Reserve (1) | | | 0 | 0.0% | 100% |
| Storage net evaporation | | | 48,557 | 9.7% | 100% |
| Inflows | | | | | |
| Storage inflows (2) | 138,739 | 28% | | | 100% |
| Downstream tributaries (3) | 363,354 | 72% | | | 50% |
| Subtotal | 502,093 | 100% | | | |
| Net water diverted under basic rights | | | | | |
| Domestic and stock rights (4) | | | 450 | | 0% |
| Native title rights | | | 0 | | |
| Subtotal | | | 450 | 0.1% | |
| Net Water diverted under access licences | | | | | |
| Domestic and stock | | | 283 | 0.1% | 100% |
| High security | | | 3,214 | 0.6% | 100% |
| General security | | | 43,588 | 8.7% | 100% |
| Local water utility | | | 6,462 | 1.3% | 100% |
| Major utility | | | 25,496 | 5.1% | 100% |
| Major utility (dilution) | | | | 0.0% | 100% |
| Supplementary water | | | 23,359 | 4.7% | 100% |
| Barnard Reserve dilution | | | 0 | 0.0% | 100% |
| Subtotal | | | 102,402 | 20.4% | |
| Environmental water | | | | | |
| Environmental flows (plan) | | | 32,265 | 6.4% | 100% |
| End of water source flows (5) | | | 280,884 | 55.9% | 100% |
| Subtotal | | | 313,149 | 62.4% | |
| Other outflows | | | | | |
| Unaccounted difference (6) | | | 0 | 0.0% | |
| Total | 502,093 | | 502,093 | 100% | |

Notes:

- (1) Barnard Reserve accumulates from an inter valley physical transfer. (Total Barnard Reserve at the end of the month =0)
- (2) Calculated from Glenbawn and Glennies Creek Dams evaporation and releases, less storage drawdown and Barnard Reserve inflows.
- (3) Downstream tributaries - assessed by mass balance at Greta
- (4) Basic rights are not metered. Values presented are those in the Water Sharing Plan.
- (5) Gauged at Greta (not the end) - flows greater than environmental target are provided.
- (6) All unaccounted source flows included in tributary inflows.
- (7) Planned environmental water delivery requirements were met 100% in 2016-17