

Project Example – Logan Water, Queensland (Project Team – Parsons Brinckerhoff and WCS Engineering)

- Optimisation of Slacks Creek Trunk Sewer Network.
- Performance assessment of the steady-state 1,300 L/EP/Day PWWF (Baseline) solution under calibrated model scenarios.
- Optimised solutions developed for 6-month, 1-year, 2-year and 5-year design storm scenarios.
- Alternatives evaluated include conveyance, storage and I/I removal.
- The Baseline (PWWF) Solution does not effectively reduce overflows (achieving only a 30% reduction in 6-month design storm overflows).
- The Optimised 1-Year Solution is 40% lower in cost than the Baseline Solution, eliminates overflows 1-year design storms, and significantly reduces overflows in the 2-year and 5-year events.
- The Optimised 1-Year Solution is \$10M (30%) lower in cost than the Conveyance-Only 1-Year Solution (i.e. significant value achieved through effective placement of wet weather flow control facilities).

