

# Flow regime and monitoring

## Flow Regime

The catchment area above the proposed intake location is 1.63km<sup>2</sup>. The scheme has been designed to operate with a maximum abstracted flow rate of 122Ltr/s – 1.28 x mean flow as determined by LowFlows2.

The intake is designed to screen the abstracted water and deliver a HOF of Q90, rising to a residual flow of Q80 at mean flow.

## Flow Monitoring

The turbines maximum power is controlled by a password protected controller. Max power will be set by the installer to correspond with the power associated with the licensed abstraction when the scheme's efficiency is taken into account.

The scheme's total generation meter can be used to calculate the annual abstraction using the calculation:  $\text{mass} \times \text{gravity} \times \text{height} \times \text{efficiency}$ .

## Maintenance

The intake has been designed to require no maintenance. Sediment management is not required to ensure the intake functions correctly. The impoundment is small and expected to fill with sediment within the first few months of operation.

The HOF notch will be checked weekly by the responsible person.