

Stream Depletion Analysis

Aquifer parameters

Transmissivity	500	(m ² /day)
Storage coefficient	0.1	
Separation distance	20	(m)
Streambed conductance		(m/day)
Stream depletion factor	0.1	(days)
Streambed factor		

Pumping details

Maximum rate	100	(l/s)
Hours per day	24	
Days per return period	7	
Return Period	7	(days)
Average rate	100.0	(l/s)
Cut back time	150	(days)
Cut back average rate	0	(l/s)

Stream depletion

Pumping duration	150	(days)
Total depletion	98.7	(l/s)

Only the values in shaded cells can be updated - all other cells are dependent on those input values. The red curve on the depletion vs time plot shows the net effect of pumping and any specified cut back.

