(a1) Varying groundwater contribution (%) to stream (GW)

DOC rate (mg d^{-1})

Discharge (m d^{-1})

Discharge

R_p

No GW

R_e, GW (7.5%)

2.5GW (18.8 %)

(b1) Varying groundwater DOC concentration, DOC_{GW}

$10DOC_{GW}$ (12.0 mg L^{-1})

R_p

R_e, DOC_{GW} (1.2 mg L^{-1})

04/09 06/09 08/09 10/09 12/09 02/10 04/10

(a2)

Flushing Dilution

no GW

GW

2.5GW Flushing

Stable

Stream DOC (mg L^{-1})

(b2)

$10DOC_{GW}$

DOC_{GW}

Discharge (m d^{-1})