

GWB 1

Net recharge into Layer 1 is 3.84, 5.98 and 3.81 in/yr for 2001, 2009 and 2010 respectively (Figures 6-6 to 6-8). Seven to ten percent of the Layer 1 net recharge is transferred to Layer 2 and the remainder discharges from Layer 1 to river and drain boundaries in near equal proportions. Of the water transferred from Layer 1 to Layer 2, 75-82% flows vertically downward to Layer 3, with the remainder flowing out of Layer 2 to river boundaries. Eighty-four to ninety two percent of the inflows to Layer 3 are derived from downward leakage from Layer 2, with other contributions occurring from Layer 4 (5-13%) and from general head boundary flows (2-3%). Well withdrawals from Layer 3 make up 87-90% of all flows out of Layer 3, with flows to river boundaries making up about 8% and lateral boundary flows making up 2-5% of all Layer 3 outward flows. General head boundary flows make up all water flows into Layer 4. In 2001, 62% of Layer 4 outflows were to Layer 3, whereas in 2009 and 2010, 50-71% of

Table 6-3. Simulated model wide mass balance for 2010 (all flows in/yr)

Layer	CH	DRN	GHB	GHB Spring Flows	GW ET	LAT, Q/LAT	Q_WEL	RCH	RIV	Flow to Lower Layer
Layer 1	-0.17	-1.93	0.00	0.00	-5.25	0.00	1.49E-03	11.0	-1.52	-2.17
Layer 2	0.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.00	-0.25	-1.92
Layer 3	0.00	0.00	-0.37	-1.48	0.00	0.00	-0.40	0.00	-0.01	0.34
Layer 4	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.30
Layer 5	0.00	0.00	0.35	0.00	0.00	0.00	0.05	0.00	0.00	-2.28E-07
Layer 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.89E-08
Layer 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Table 6-4. Simulated model wide mass balance for no-pumping (all flows in/yr)

Layer	CH	DRN	GHB	GHB Spring Flows	GW ET	LAT, Q/LAT	Q_WEL	RCH	RIV	Flow to Lower Layer
Layer 1	-0.25	-2.58	0.00	0.00	-6.88	0.00	0.00	13.6	-2.30	-1.63
Layer 2	0.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.00	-0.32	-1.32
Layer 3	0.00	0.00	-0.07	-1.74	0.00	0.00	0.13	0.00	-0.02	0.38
Layer 4	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.35
Layer 5	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	-2.52E-07
Layer 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.25E-09
Layer 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	