Updates to anthropogenic recharge for Wood River Valley groundwater model

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Updates to Anthropogenic Recharge

- Updated design document “Calculation of Incidental Recharge and Groundwater Pumping Demand on Irrigated and Semi-Irrigated Lands” to reflect revisions
  - Infiltration basins at City of Bellevue wastewater treatment plant
  - Bypass Canal
  - Exempt domestic wells
  - Revisions to non-irrigated lands mask
  - Dollar Mountain snowmaking
  - 2010 ET files updated to METRIC
Infiltration basins

- Recorded monthly data for 1999-2010
Bypass Canal

- Water District 37 does not record total flow through Bypass Canal
- USGS measurements on August 28, 2012 and October 23, 2012
  - 52 cfs at heading on Aug. 28
  - 127 cfs at heading on Oct. 23
- No diversions from upper 2.6-mile reach
  - 8 cfs seepage on Aug. 28
  - 11 cfs seepage on Oct. 23
- Baseline and Dittoe diversions from lower 0.7-mile reach
  - 1.5 cfs seepage on Aug. 28
  - no Water District records for Oct. 23
Irrigation from exempt domestic wells

- Added 682 points to represent irrigation from exempt domestic wells
- Assigned a maximum diversion rate of 0.01 cfs for apportioning estimated groundwater pumping
Revisions to non-irrigated lands mask
Dollar Mountain snowmaking

- Water applied for snowmaking outside of the aquifer boundary, averaged 36 AF/yr for 1995-2010

- Assumed to return to Trail Creek as surface runoff during spring snowmelt

- Deducted from water applied to SVWSD service area with other return flows (WWTP)
2010 METRIC ET

- Updated 2010 ET data with recently completed METRIC ET