

Hydraulic and Hydrologic Analyses

Continuous Simulation Hydrologic Modeling, Town of Moraga



A continuous simulation hydrologic model of the Coyote Gulch Watershed was completed by Balance Hydrologics as part of the Palos Colorados residential development project in the Town of Moraga, California. The model was prepared to assess potential stormwater management features intended to mitigate for project impacts related to peak flows and hydromodification in the downstream channels. The Environmental Protection Agency's Hydrological Simulation Program – Fortran (HSPF) modeling platform was used to assess existing and proposed conditions within the watershed over a 30-year simulation period at a 15 minute time step.

A rainfall and streamflow gaging program implemented by Balance within the Coyote Gulch Watershed was integral in calibrating parameters within the model and for assessing the validity of the extended rainfall record.

