Section 3 Recycled Water Supply and the Regional System

3-1 Regional Water Supply

Recycled water is provided by the Inland Empire Utility Agency (IEUA), which treats wastewater at four regional wastewater reclamation plants; Carbon Canyon Wastewater Reclamation Facility (CCWRF), Regional Plant No. 1 (RP-1), RP-4, and RP-5.

Per IEUA's 2010 Urban Water Management Plan there will be 61,903 AFY available for Recharge and Direct Use in 2035; allocations to Ontario are estimated to be 18,385AFY based on estimated percentage of total EDUs. The City's CIP will be based upon the City's 2011 Urban Water Management Plan Update 2011 Recycled Water Demand of 18,385 AFY, despite the potential for more demand, as identified in Section 5.

3-2 Regional Backbone System

The existing regional system shown on Figure 3-1 consists of approximately 35 miles of recycled water pipelines serving four different pressure zones: Zone 800, Zone 930, Zone 1050, and Zone 1270. The names of these pressure zones refer to the design hydraulic grade line (HGL) of the zone in feet above mean sea level. The existing system serves recycled water to customers in the cities of Chino, Chino Hills, Ontario, and Rancho Cucamonga from CCWRF, RP-1, and RP-4. Significant expansion of the existing system is planned to serve more recycled water customers and future developments in IEUA's service area. The proposed expansions are outlined in the Recycled Water Implementation Plan (MWH, 2005b). The proposed IEUA recycled water system consists of:

- 7 pressure zones with HGLs of 800, 930, 1158, 1270, 1430, 1630, and 1830.
- 35 regional pipeline projects with a total length of approximately 92 miles, ranging from 12 to 60 inches in diameter.
- 109 MG of reservoir storage including 17.5 MG of equalization storage at the regional plants.
- 13 booster stations with a combined capacity of 207,000 gpm (nearly 15,000 HP).