

CHAPTER 5 RECYCLED WATER PROGRAM

5.1 OVERVIEW

IEUA, an ex-officio member of the CDA and a Regional agency responsible for wastewater treatment, has organized a program to encourage water reuse within its service area and the adjacent JCSD service area. The Cities of Corona and Norco are responsible for water recycling in their service areas. The establishment of new supplemental funding sources through federal, state and regional programs now provides significant financial incentives for local agencies of the CDA to use recycled water. While the CDA as an agency does not provide or distribute recycled water, recycled water is an important element of the water supply portfolios of the CDA retail agencies. The primary water supply for population growth associated with the conversion of agricultural land to urban uses in the southern part of the Chino Basin will come from either recycled water or reclaimed groundwater distributed by the CDA.

5.2 IEUA'S REGIONAL RECYCLED WATER PROGRAM

IEUA is working closely with the CDA retail agencies to develop a regional recycled water distribution program that will maximize water reuse in the southern portion of the Chino Basin. IEUA has recently completed a Recycled Water Implementation Plan that coordinates the interface of retail recycled water distribution systems with implementation of IEUA's wholesale recycled water distribution network. Through this Implementation Plan (that is discussed in detail in Chapter 5 of IEUA's UWMP, see Appendix I of this report), recycled water will provide a substantial water supply to the southern Chino Basin. IEUA is also working with CDA retail agencies on future programs such as dual plumbing for residential use of recycled water for outdoor irrigation and other non-potable water uses.

5.3 RECHARGE OF RECYCLED WATER IN THE CHINO BASIN

With the signing and establishment of the Principles of Agreement – Recharge of Recycled Water in the Chino Basin Management Zone – 3 (MZ-3) on the 5th of June 2002, IEUA agreed to provide recycled water to the JCSD. The Agreement provided for the delivery of recycled water to JCSD at a 20% surcharge over the IEUA wholesale rate. Additionally, it was agreed that grant funds and local funds would be sought to design and construct the IEUA Regional Recycled Water Distribution System, and to develop a groundwater recharge system that could take advantage of local storm flow, recycled water and imported water for groundwater replenishment in MZ-3.

5.4 IEUA'S HISTORICAL RECYCLED WATER DISTRIBUTION SYSTEM

Beginning in the early 1990's, IEUA initiated the construction of Phase I of the Carbon Canyon Recycled Water Project (CCRWP). This series of projects includes treatment facilities and distribution pipelines to serve recycled water customers in Chino and Chino Hills. In conjunction with the construction of Phase I of the CCRWP, IEUA began planning for an IEUA Regional Recycled Water Distribution System to provide recycled water throughout its service area. This planning effort culminated with the completion of the IEUA Regional Recycled Water Program Feasibility Study in January 2002. The Feasibility Study identified facilities to deliver over 70,000 acre-feet per year (AFY) of recycled water to customers and recharge sites throughout the IEUA service area.

The following are significant events leading up to the 2005 Implementation Plan:

- 1993 Recycled Water Master Plan
- 1995 Carbon Canyon Recycled Water System Plan
- 1998 Carbon Canyon Recycled Water System Initial Deliveries
- 2000 State of California Proposition 13 – Construction Grants
- 2001 Recycled Water Facilities Planning Study
- 2002 Regional Recycled Water Program Feasibility Study
- 2002 Recharge of RW – Chino Basin MZ-3 Agreement
- 2002 Programmatic EIR (certified by IEUA Board)
- 2003 SWRCB Grant (\$5 million) Loan (\$22 million) Approved
- 2003 Initiate Construction of Phase I Facilities
- 2005 Regional Recycled Water Program Implementation Plan

5.5 GRANT FOR GROUNDWATER REPLENISHMENT FACILITIES

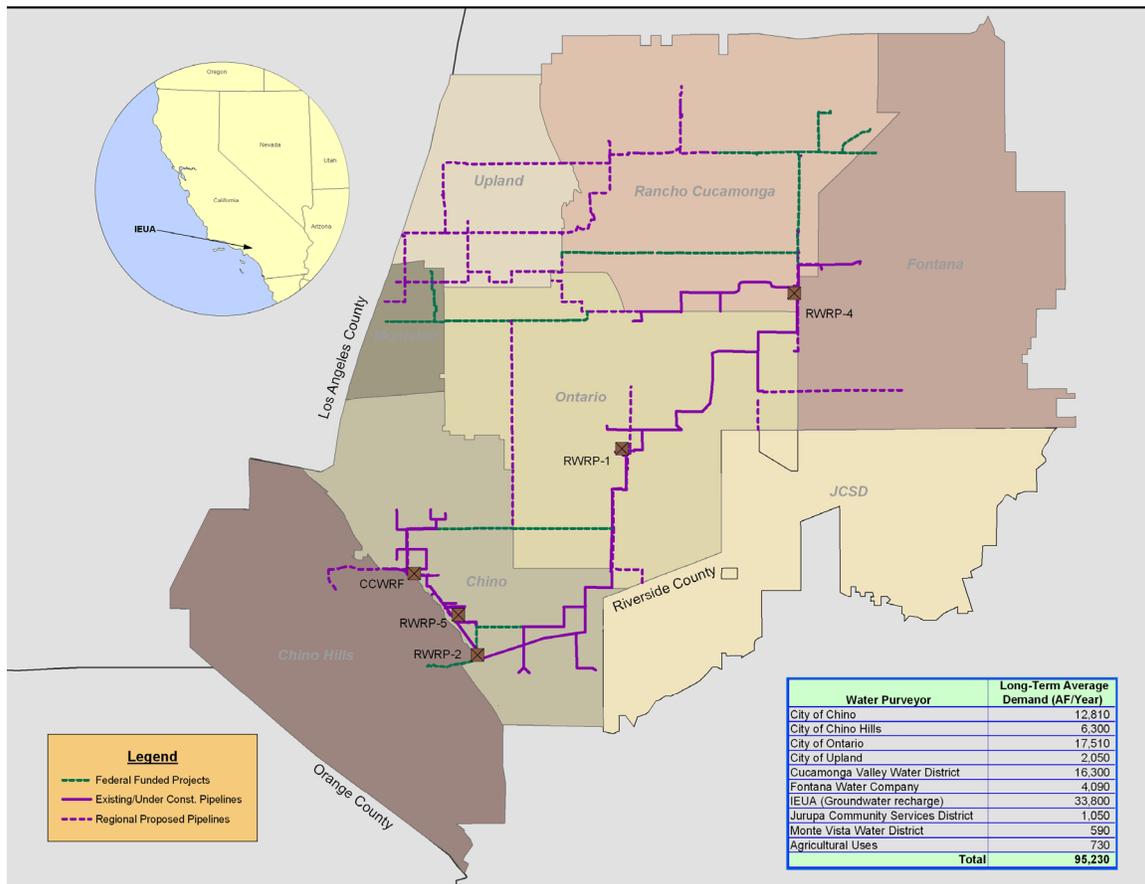
In 2000, under the State of California Proposition 13, IEUA received a \$19 million grant through SAWPA to expand the initial Chino Groundwater Basin groundwater recharge system. The construction grant project was named the Chino Basin Facilities Improvement Program (CBFIP) and provided for the redevelopment and new construction of groundwater recharge facilities. The grant funds were matched with local funds to complete the \$38.7 million construction program. Storm water conservation began in 2004 and recycled water recharge began in the summer of 2005.

5.6 IEUA RECYCLED WATER DISTRIBUTION

The CDA member cities of Chino, Chino Hills, and Ontario receive recycled water as Contracting Agencies to IEUA. Through the Principles of Agreement – Recharge of Recycled Water in the Chino Basin Management Zone – 3, other members of the CDA (namely, Jurupa Community Service District, the City of Norco, and the Santa Ana River Water Company) are able to purchase recycled water from IEUA.

The plans for IEUA’s Regional Recycled Water Distribution System includes over 50 projects which include separate pipelines, pump stations and storage reservoirs for recycled water. These projects have been grouped into five implementation phases, which are scheduled in two-year increments. The priority of each phase was determined based on the amount of recycled water each phase could serve and the proximity of each phase to one of the regional water recycling plants or existing recycled water transmission mains. Phase I and II of the program will deliver recycled water to most of the groundwater recharge sites, since recharge represent a significant use of recycled water. The existing and proposed Recycled Water Program facilities are shown in Figure 5-1.

**Figure 5-1
Recycled Water Distribution Lines and Regional Plants**



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